

*Goodell-Pratt
Company*

Toolsmiths

*Pocket
Catalog
11*

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MAR 25 1913

Mass. U.S.A.

Goodell-Pratt Company

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INCORPORATED 1895

Greenfield, Massachusetts

United States

Toolsmiths

Cable Address Prattgood Greenfield

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Catalog
Number **11**

1913

Important Notice

CATALOG No. 11

This new issue of our Catalog No. 11 cancels all previous editions and will be found to contain many new items of interest, listed on the opposite page.

WARRANTY

Every tool of our manufacture is warranted free from imperfections of material or defects in workmanship and, when so defective, will be repaired or replaced without charge; **but under no circumstances will we assume the responsibility for breakage where flaws do not appear, nor will we replace tools which have suffered from abusive treatment or have been stamped with the owner's name, changed, or otherwise experimented upon. NO DEALER IS AUTHORIZED TO MAKE REPLACEMENTS FOR US. ARTICLES CLAIMED DEFECTIVE MUST BE RETURNED DIRECT, CHARGES PAID, FOR INSPECTION.**

REPAIRS

We can furnish repairs for any tool of our manufacture, providing our customers will make it plain to us what new parts are wanted; and where the owner of the tool is sufficiently mechanical to enable him to make repairs himself after receiving the new part, it is quite practical and profitable for him to do it, but it seldom pays to return by express or otherwise tools of small value, as the transportation charges and the cost of repairs are oftentimes more than the cost of a new tool.

SHIPPING INSTRUCTIONS

In ordering give explicit shipping directions and they will be followed, otherwise we shall send according to our best judgment. **All goods are at the risk of the purchaser after having been delivered in good order to the forwarders; WE CANNOT HOLD OURSELVES RESPONSIBLE FOR ARTICLES LOST IN TRANSIT.**

CHANGES

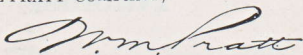
We are oftentimes asked to make slight changes in design, finish, or mechanism of some particular tool; we cannot do this, as it would increase the cost of the tool several hundred per cent.

DISCOUNTS

Upon most of the articles shown in this book a discount will be allowed. This discount will be quoted by any hardware dealer on request.

GOODELL-PRATT COMPANY,

GREENFIELD, MASSACHUSETTS,
JANUARY 1, 1913.



President and Treasurer.

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Wm Pratt

Automatic Drill

No. 108

This Automatic Drill embodies in its construction all features which more than twenty years' experience in the manufacture and sale of such tools has shown to be necessary or desirable. It is, we believe, equal to, and in a number of ways superior to, any similar tool now on the market.

SIZE.—The Drill is 10 inches long, without Drill Point inserted, and weighs slightly less than $\frac{1}{2}$ pound.

MATERIAL.—Hollow Brass Tubes, heavily nickel plated and handsomely buffed.

HANDLE.—Knurled entire length, giving a firm grip; contains Patented Magazine, holding the eight Drill Points, each in a separate numbered compartment, from which they are removed through the rotating cap. By this method it is impossible to drop and lose other Drill Points when selecting a certain size.

CENTER NUT.—The most important part of any spiral driven tool. We use a very hard grade of brass, which material, experiment has proven, gives the most lasting service.

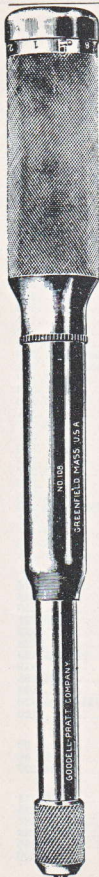
CHUCK.—The two hardened steel Jaws hold the Drill Points firmly, and when properly secured it is impossible to pull them out. The nut itself is of good size, knurled its full length, and a simple device is so arranged that it is impossible to unscrew it entirely, thereby preventing its being dropped and lost.

EQUIPMENT.—Eight Fluted Drill Points, ranging in size from $\frac{1}{16}$ to $\frac{1}{4}$ inch, are furnished with each tool.

Price, per dozen (CANILE) \$30.00

Packed one in a box, $10\frac{1}{4} \times 1\frac{1}{2} \times 1\frac{1}{4}$ inches.

Weight, per dozen, 8 pounds,



Automatic Drill

No. 185

Patent Applied For

This Automatic Drill is similar in design and construction to the No. 108 just described, but in addition to the designation of the Drill Point sizes by number the Drill Point Magazine is provided with a gauge showing the exact size of the Drill Point which is contained in each compartment. This feature will prove of great convenience to those users who are not familiar with the Drill sizes.

SIZE.—The Drill is 10 inches long, without Drill Point inserted, and weighs slightly less than $\frac{1}{2}$ pound.

MATERIAL.—Hollow Brass Tubes, heavily nickel plated and handsomely buffed.

HANDLE.—Knurled entire length, giving a firm grip; contains Patented Magazine, holding the eight Drill Points, each in a separate numbered compartment, from which they are removed through the rotating cap. The Magazine is provided with a Drill Gauge showing the exact sizes of the Drill Points therein contained.

CENTER NUT.—The most important part of any spiral driven tool. We use a very hard grade of brass, which material, experiment has proven, gives the most lasting service.

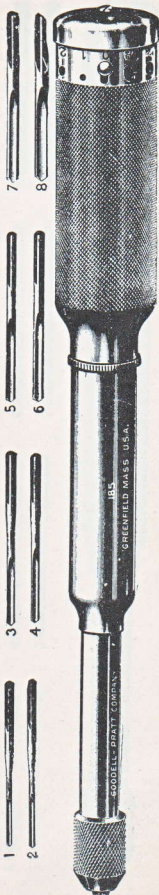
CHUCK.—The two hardened steel Jaws hold the Drill Points firmly, and when properly secured it is impossible to pull them out. The nut itself is of good size, knurled its full length, and a simple device is so arranged that it is impossible to unscrew it entirely, thereby preventing its being dropped and lost.

EQUIPMENT.—Eight Fluted Drill Points, ranging in size from $\frac{1}{16}$ to $\frac{11}{16}$ inch, are furnished with each tool.

Price, per dozen (CAMLET) \$32.00

Packed one in a box, $10\frac{1}{4} \times 1\frac{1}{2} \times 1\frac{1}{4}$ inches.

Weight, per dozen, 8 pounds.



Automatic Drill

No. 1

NICKEL PLATED

While undoubtedly the feature of having the Drill Points contained in the handle is frequently of great convenience, it is not at all necessary for the efficient operation of the Drill, and many users do not care to pay for the additional cost. For the benefit of such parties we are offering the Drill here illustrated.

SIZE.—The Drill is $9\frac{1}{2}$ inches long, without Drill Point, and weighs 5 ounces.

MATERIAL.—Hollow Brass Tubes, handsomely nickel plated and buffed.

HANDLE.—The end is enlarged and perfectly smooth, with longitudinal corrugations insuring a firm grip.

CENTER NUT.—Hard brass, the best material for the place.

CHUCK.—The two hardened steel Jaws hold the Drill Points firmly, and when properly secured it is impossible to pull them out. The nut itself is of good size and knurled its full length.

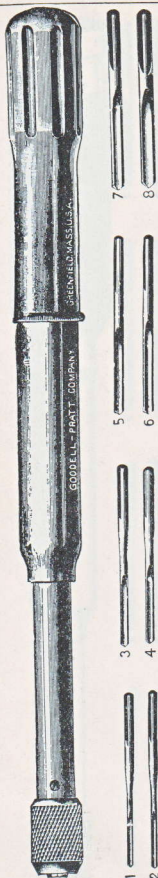
EQUIPMENT.—Eight Fluted Drill Points, ranging in size from $\frac{1}{16}$ to $\frac{1}{4}$ inch, are furnished with each tool.

Price, per dozen. (CARROM) \$24.00

For extra Drill Points, see page 16.

Each Drill packed in a neat tin box,
 $9\frac{3}{4} \times 1\frac{3}{8} \times 1$ inches.

Weight, per dozen, 7 pounds.



Automatic Drill

No. 2

As before mentioned, the feature of the Magazine Handle is convenient, but not necessary, and for those who do not desire it this Drill is designed.

SIZE.—The Drill is $9\frac{1}{2}$ inches long, without Drill Point, and weighs 5 ounces.

MATERIAL.—Hollow Brass Tubes, handsomely nickel plated and buffed.

HANDLE.—Polished Cocobolo, properly shaped for comfortable use.

CENTER NUT.—Hard brass, the best material or the place.

CHUCK.—The two hardened steel Jaws hold the Drill Points firmly, and when properly secured it is impossible to pull them out. The nut itself is of good size and knurled its full length.

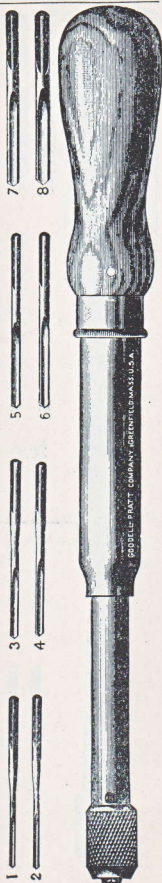
EQUIPMENT.—Eight Fluted Drill Points, ranging in size from $\frac{1}{16}$ to $\frac{1}{4}$ inch, are furnished with each tool.

Price, per dozen (CAMEL) \$24.00

For extra Drill Points, see page 16.

Each Drill packed in a neat tin box, $9\frac{3}{4} \times 1\frac{3}{8} \times 1$ inches.

Weight, per dozen, 7 pounds.

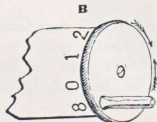
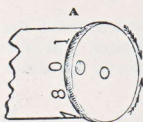
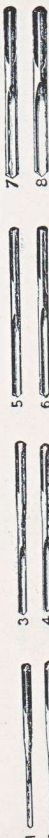
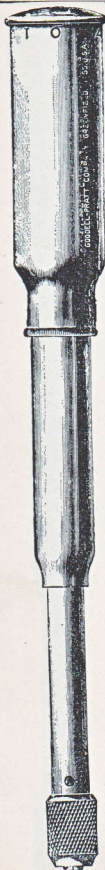


Automatic Drill

No. 3

Patented September 30, 1890; November 17, 1891

NICKEL PLATED



This Automatic Drill embraces all devices, which experience has proved desirable in the use of such a tool.

SIZE.—The Drill is 10 inches long, and weighs slightly less than $\frac{1}{2}$ pound.

MATERIAL.—Hollow Brass Tubes, heavily nickel plated and handsomely buffed.

HANDLE.—Smooth and comfortable to the hand; contains Patented Magazine, holding the eight Drill Points, each in a separate numbered compartment, from which they can be removed through the hole in the rotating cap, as illustrated above. When not in use, the hole is turned to O, where a pin prevents its accidental turning, and the consequent loss of Drill Points.

CENTER NUT.—Hard brass, the best material for the place.

CHUCK.—The two hardened steel Jaws hold the Drill Points firmly, and when properly secured it is impossible to pull them out. The nut itself is of good size and knurled its full length.

EQUIPMENT.—Eight Fluted Drill Points, ranging in size from $\frac{1}{16}$ to $\frac{1}{4}$ inch, are contained in the magazine handle.

Price, per dozen.....(CANOPY) \$26.00

Each Drill packed in a strong paper box, $10 \times 1\frac{1}{4} \times 1\frac{1}{4}$ inches.

Shipping weight, per dozen, 7 pounds.

Automatic Drill

No. 3 $\frac{1}{2}$

Patented September 30, 1890; November 17, 1891

Many users insist upon having a Wooden Handle, believing that it is easier for the hand, and for such purchasers we here offer the combination of the Wooden Handle, containing the Patent Magazine for Drill Points.

SIZE.—The Drill is 10 $\frac{1}{4}$ inches long, and weighs $\frac{1}{2}$ pound.

MATERIAL.—Except the Handle, Hollow Brass Tubes, nickel plated and buffed.

HANDLE.—Polished Hard Wood, with nickel plated flange and cap. It is provided with our Patented Magazine, containing the Drill Points, each in a separate numbered compartment, from which they may be removed through the rotating cap, as illustrated above.

CENTER NUT.—Hard brass, the best material for the place.

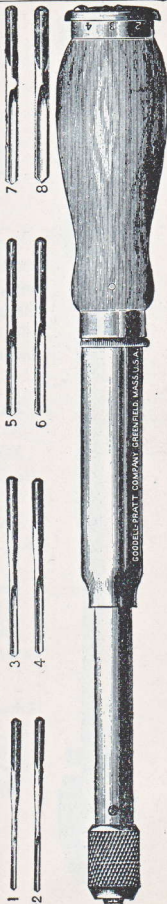
CHUCK.—The two hardened steel Jaws hold the Drill Points firmly, and when properly secured it is impossible to pull them out. The nut itself is of good size and knurled its full length.

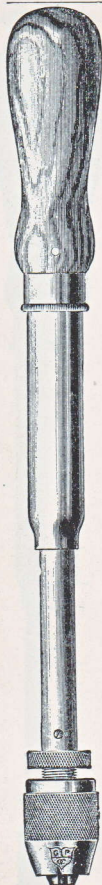
EQUIPMENT.—Eight Fluted Drill Points, ranging in size from $\frac{1}{16}$ to $\frac{1}{8}$ inch, are contained in the magazine handle.

Price, per dozen. (CARBOY) \$25.00

Each Drill packed in a strong paper box, 10 $\frac{1}{2}$ x 1 $\frac{3}{4}$ x 1 $\frac{1}{2}$ inches.

Shipping weight, per dozen, 8 pounds.





PAGE

12

Automatic Drill

No. 35

No Drill Points Furnished with this Tool

For some purposes the Straight Fluted Drill Points furnished with the regular Automatic Drill are not satisfactory, and it is preferable to use regular Straight Shank Twist Drills. For this purpose we offer an Automatic Drill equipped with a Three-Jawed Chuck.

SIZE.—Length, $11\frac{1}{4}$ inches; weight, 12 ounces.

MATERIAL.—Hollow Brass Tubes and Wooden Handle.

HANDLE.—Polished Cocobolo, so shaped as to give firm and comfortable grip.

CENTER NUT.—Hard brass, will give long service.

CHUCK.—Capacity 0 to $\frac{1}{4}$ inch, made entirely of steel, with three hardened Jaws.

Price, per dozen. (CARDILE) \$36.00

Packed one in a box, $11\frac{1}{2} \times 1\frac{1}{4} \times 1\frac{3}{4}$ inches.

Weight, per dozen, 9 pounds.

Automatic Punch No. 34

This is a very ingenious and useful tool for punching holes in paper, cloth, or leather. It consists of one of our regular No. 2 Automatic Drills, equipped with a set of four special Punches with shanks so formed as to be secured firmly in the Chuck. By pushing upon the handle the punches are rotated and the hole made.

HANDLE.—Polished Cocobolo, correctly shaped for a comfortable grip.

CENTER NUT.—Hard brass, giving long service.

CHUCK.—The two hardened steel Jaws hold the Punches firmly, and when properly secured it is impossible to pull them out. The nut is of good size and knurled its full length.

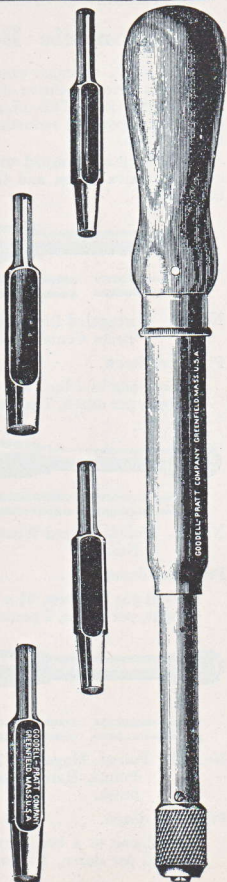
EQUIPMENT.—Four Hollow Punches; $\frac{9}{64}$, $\frac{11}{64}$, $\frac{3}{16}$, and $\frac{13}{64}$ inch.

Per dozen. (CARPUN) \$36.00

Packed one in a box, $10\frac{1}{2} \times 1\frac{3}{4} \times 1\frac{3}{4}$ inches.

Weight, per dozen, 8 pounds.

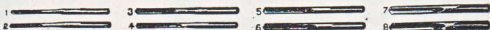
Extra Punches, each, \$0.25.



Automatic Drills, Dull Finish

These tools, although exactly the same in mechanical construction as our more expensive styles, are entirely without polish, being left in dull nickel. This affords a quite considerable saving in cost, and a corresponding reduction in the price at which we are able to offer them.

Each Drill is furnished with eight Drill Points, the same as our more expensive styles, and they are each packed in a neat paste-board box.

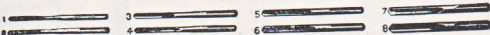


No. 01. Corrugated Brass Handle, White Nickeled, Hard Brass Center Nut.

Price, per dozen.....(OCARROM) \$18.00

Packed one in a box, $9\frac{3}{4} \times 1\frac{1}{2} \times 1$ inch.

Weight, per dozen, 7 pounds.

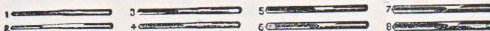


No. 02. Polished Hard Wood Handle, Hard Brass Center Nut.

Price, per dozen.....(OCAMEL) \$18.00

Packed one in a box, $9\frac{3}{4} \times 1\frac{1}{2} \times 1$ inch.

Weight, per dozen, 7 pounds.



No. 03 Patent Magazine Handle containing the Drill Points, Hard Brass Center Nut, White Nickel finish.

Price, per dozen.....(OCANOPY) \$20.00

Packed one in a box, $10 \times 1\frac{1}{4} \times 1\frac{1}{4}$ inches.

Weight, per dozen, 7 pounds.

Automatic Drill

No. 105

This tool was designed to supply the demand for an Automatic Drill of very moderate price, as where one has only slight use for such a tool, or desires to have several about his workshop, it is unnecessary to have elaborate mechanism.

SIZE.—This Drill is $13\frac{1}{4}$ inches long, without Drill Point, and weighs $\frac{1}{2}$ pound.

HANDLE.—Hard Wood, handsomely stained and polished, and properly shaped to give a firm and comfortable grip.

SPIRAL.—Steel.

CENTER NUT.—Hard brass, giving long service.

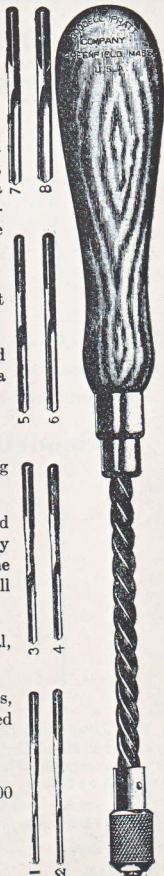
CHUCK.—The two hardened steel Jaws hold the Drill Points firmly, and when properly secured it is impossible to pull them out. The nut itself is of good size and knurled its full length.

FINISH.—All metal parts, except the Spiral, are nickel plated.

EQUIPMENT.—Eight Fluted Drill Points, ranging in size from $\frac{1}{16}$ to $\frac{11}{16}$ inch, are furnished with each tool.

Price, per dozen (CALER) \$12.00

Packed one in a box, $13\frac{1}{2} \times 1\frac{3}{4} \times 1\frac{3}{4}$ inches.
Weight, per dozen, 9 pounds.











Goodell-Pratt Drill Points

Fluted Shanks

Fitting Automatic Drills.

These Points are manufactured from the finest grade of steel.

Nos.	1	2	3	4	5	6	7	8
								
Sizes about	$\frac{1}{16}$	$\frac{5}{64}$	$\frac{3}{32}$	$\frac{7}{64}$	$\frac{1}{8}$	$\frac{9}{64}$	$\frac{5}{32}$	$\frac{11}{64}$

Price, per dozen.....\$0.72









Furnished in sets if desired.

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Goodell-Pratt Drill Points

Plain Shanks

Nos.	1	2	3	4	5	6	7	8
								
Sizes about	$\frac{1}{16}$	$\frac{5}{64}$	$\frac{3}{32}$	$\frac{7}{64}$	$\frac{1}{8}$	$\frac{9}{64}$	$\frac{5}{32}$	$\frac{11}{64}$

The above small Drills are the same that we furnish with several styles of our Hand Drills, and can be held in any three-jawed Chuck; they have straight Flutes and are very desirable for drilling wood or the soft metals.

They are made from the finest quality of tool steel, tempered in oil, and carefully ground.

Price, per dozen..... \$0.72

Furnished in sets or solid sizes, as specified.

Reciprocating Automatic Drill

No. 102

For Iron, Brass, or Wood

This tool will be found very valuable for jewelers, clock-makers, gunsmiths, or wherever a hand tool is required for rapid drilling in small sizes. It consists of the combination of a Magazine Handle with a short Spiral, similar to those used on our other Reciprocating Drills.

HANDLE.—Brass, nickel plated, running on Ball Bearings; contains our Patented Magazine holding the eight Drills, each in a separate numbered compartment.

SPIRAL.—Polished Steel, accurately cut to 20° slant, giving ample power.

TRAVELING HANDLE.—Polished Cherry, so shaped as to give a firm grip, and containing the Flanges and hard Bronze Nuts which make up the driving mechanism.

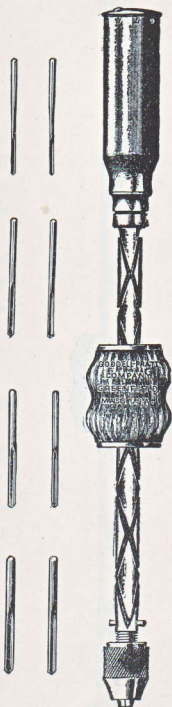
CHUCK.—Three-jawed; capacity 0 to $\frac{5}{32}$ inch.

EQUIPMENT—Eight Round Shank Drill Points, varying in size from $\frac{1}{16}$ to $\frac{1}{8}$ inch, are furnished with each tool.

Price, per dozen (CENTER) \$27.00

Packed one in a box, $13\frac{1}{2} \times 1\frac{3}{4} \times 1\frac{3}{4}$ inches.

Weight, 14 ounces.



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Reciprocating Automatic Drill

No. 0

For Iron, Brass, or Wood

This tool will be found very useful for drilling holes in cramped quarters, where a Brace, Breast Drill, or Hand Drill cannot be conveniently brought into play, or in fact anywhere that rapid drilling is desired.

The mechanism, which is extremely simple, is so arranged that regardless of whether the Traveling Handle is moved forward or backward, the Chuck continues to revolve to the right. There is no lost motion.

HEAD.—Lignum-vitæ, supported by a heavy quill, running in Ball Bearings.

SPIRAL.—Polished Steel, accurately cut to 20° slant, giving ample power.

TRAVELING HANDLE.—Polished Cherry, so shaped as to give a firm grip, and containing the Flanges and hard Bronze Nuts which make up the driving mechanism.

CHUCK.—Capacity 0 to $\frac{1}{4}$ inch; all parts of steel, with three hardened Jaws.

No Drills furnished without extra charge.

Price, per dozen. (CAMPER) \$30.00

Packed one in a box, $16\frac{3}{4}$ x $2\frac{1}{2}$ x $2\frac{1}{2}$ inches.

Weight, $1\frac{1}{4}$ pounds each.

Length, $16\frac{1}{2}$ inches.



Reciprocating Drill

No. 101

For Iron, Brass, or Wood

This Drill is, we believe, the finest and most practical tool of this description which has ever been designed and offered to the trade. We invite particular attention to the size and shape of the Traveling Handle, which can be grasped by the whole hand. This admits of more power being applied and at the same time protects the fingers from damage against the Spiral.

The mechanism, which is extremely simple, is so arranged that regardless of whether the Traveling Handle is moved forward or backward, the Chuck continues to turn to the right.

HEAD.—Lignum-vitæ, supported by a heavy quill, running in Ball Bearings.

SPIRAL.—Polished Steel, accurately cut to 20° slant, giving ample power.

TRAVELING HANDLE.—Polished Cherry; 4½ inches long, and containing the Flanges and hard Bronze Nuts which make up the driving mechanism.

CHUCK.—Three-jawed; capacity 0 to ¼ inch all steel construction, with hardened Jaws.

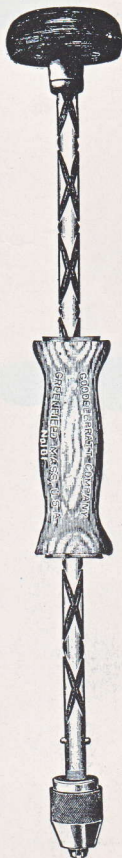
No Drill Points furnished without extra charge.

Price, per dozen.....(CLATE) \$30.00

Packed one in a box, 16¾ x 2½ x 2½ inches.

Weight, 1¼ pounds each.

Length, 16½ inches.



Automatic Breast Drill

No. 103

This Drill was designed with the idea of furnishing a tool for rapid drilling in wood, although it will handle any work in brass or iron, for which ordinary Straight Shank Twist Drills could be used.

HEAD.—Iron, strong and well shaped, running on Ball Bearings.



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SPIRAL.—Polished Steel, accurately cut to a 20° slant, and capable of generating all necessary power.

TRAVELING HANDLE.—Brass, nickel plated; contains the Flanges and hard Bronze Nuts, which make up the driving mechanism. It is provided with two Side Handles, enabling the operator to apply both hands to the work.

CHUCK.—Three-jawed; capacity 0 to $\frac{1}{4}$ inch; will hold well up to its extreme capacity.

No Drills furnished without extra charge.

Price, per dozen (CRONE) \$33.00

Packed one in a box, 17 x $5\frac{1}{4}$ x $2\frac{1}{2}$ inches.

Weight, 2 pounds.

Length, $16\frac{1}{2}$ inches.

Surgeon's Drill

No. 315

This Drill was brought out to meet the surgeons' demands for a light, accurate, rapid, and sanitary Bone Drill, one that could be readily taken apart and sterilized. It is small and compact, yet of sufficient length to give the operator plenty of room between the handle and crank, and the crank and end of Chuck, which is two inches from the large gear.

HANDLE.—Brass, nickeled and buffed.

FRAME.—Steel, nickeled and buffed.

GEARS.—Cut teeth, white nickeled. Large Gear edge, polished and buffed.

CRANK.—All Metal, nickeled and buffed.

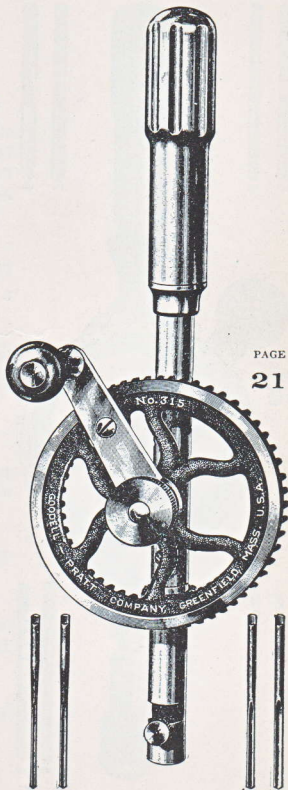
CHUCK.—Special, with Knurled Head Set Screw, all nickeled and buffed, to fit spot holes in Drill Points.

EQUIPMENT.—Four Drill Points, one each $\frac{1}{8}$, $\frac{5}{64}$, $\frac{3}{32}$, and $\frac{7}{64}$ inch in diameter, are furnished with each tool, all contained in Handle.

Price, per dozen.....(doc) \$30.00

Each Drill packed in a box, $9\frac{1}{2} \times 3\frac{1}{4} \times 1\frac{7}{8}$ inches.

Weight, per dozen, $10\frac{1}{2}$ pounds.



Hand Drill

No. 110

This tool is designed to fill the wants of those desiring a low priced Hand Drill for use with Fluted Shank Drill Points such as those furnished with Automatic Drills.

HANDLE.—Brass, white nickerled. Can be quickly removed and used as a receptacle for Drills.

FRAME.—Malleable Iron, well japanned.

GEARS.—Cut Teeth, nickel plated.

GUARD.—The Gears are held together by a Steel Guard, having every advantage of a Double Geared Drill.

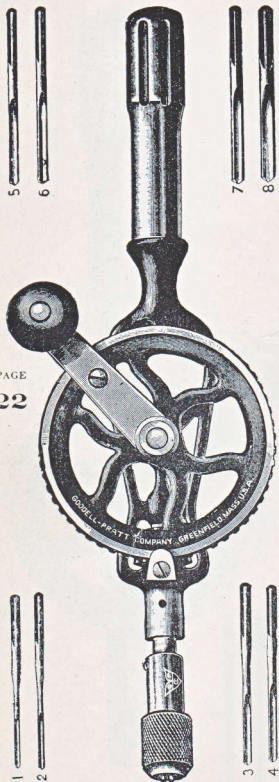
CHUCK.—Two-jawed, for holding Fluted Drill Points only.

EQUIPMENT.—Eight Drill Points, varying in size from $\frac{1}{16}$ to $\frac{11}{64}$ inch, furnished with each tool.

Price, per dozen. . . . (RESORT) \$15.00

Each Drill packed one in a box, 8 x 3½ x 1½ inches.

Weight, per dozen, 12 pounds.



Hand Drill

No. 49

Capacity 0 to $\frac{5}{32}$ inch

Chuck Patented August 13, 1895

No Drill Points Furnished with this Tool

This Drill was designed with the idea of offering a small Drill of good quality at an extremely moderate price.

HANDLE.—Brass, white nickerled. Can be quickly removed and used as a receptacle for Drills.

FRAME.—Malleable Iron, well japanned.

GEARS.—Cut Teeth, nickel plated.

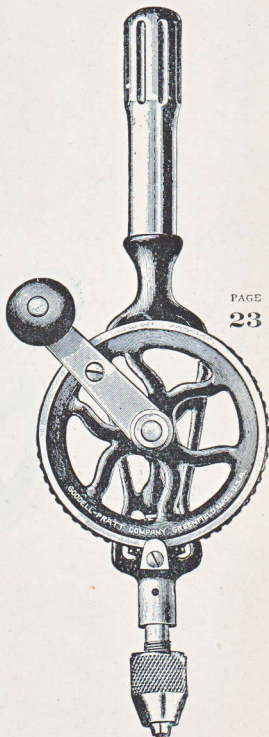
GUARD.—The Gears are held together by a Steel Guard, having every advantage of a Double Geared Drill.

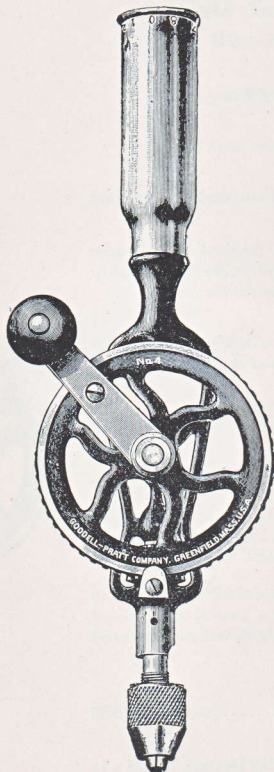
CHUCK.—Three-jawed; capacity 0 to $\frac{5}{32}$ inch. It has a knurled nickel-plated shell and is entirely of steel, with hardened Jaws.

Price, per dozen (RABBIN) \$13.50

Each Drill packed in a box, $7\frac{3}{4} \times 3\frac{1}{2} \times 1\frac{1}{2}$ inches.

Weight, per dozen, 12 pounds.





Hand Drill

No. 4

Capacity 0 to $\frac{5}{32}$ inch

Chuck Patented August 13, 1895

An examination of the cut upon the opposite page cannot fail to convey a good general idea of this Drill; the particulars we enumerate below.

HANDLE.—Hollow Brass, nickel plated; contains Patented Magazine, holding the eight Drill Points, each in a separate numbered compartment, from which they can be removed through the hole in the rotating cap as illustrated.

FRAME.—Malleable Iron, well japanned.

GEARS.—Cut Teeth, nickel plated.

GUARD.—The Gears are held together by a Steel Guard, having every advantage of a Double Geared Drill.

CHUCK.—Three-jawed; capacity 0 to $\frac{5}{32}$ inch. It has a knurled nickel-plated shell and is made entirely of steel, with hardened Jaws.

EQUIPMENT.—Eight Fluted Drill Points, similar to those furnished with Automatic Drills, but having plain shanks, are furnished with each tool.

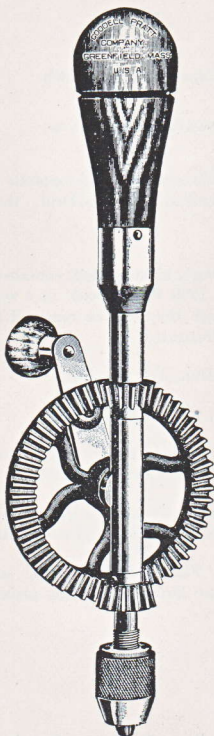
Price, per dozen..... (RANGER) \$26.00

Each Drill packed in a strong pasteboard box, $11 \times 3\frac{1}{4} \times 2\frac{1}{4}$ inches.

Weight, per dozen, 16 pounds.

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Hand Drill

No. 52

Capacity 0 to $\frac{5}{32}$ inch

Chuck Patented August 13, 1895

This new Hand Drill, and the other styles and sizes of similar construction which are shown and described on various following pages, make up our new line of Steel Frame Hand and Breast Drills.

In appearance we believe they are even more attractive than those constructed with malleable iron frames; the general character of the mechanism and class of workmanship are very similar.

LENGTH OVER ALL.— $10\frac{1}{2}$ inches.

FRAME.—All Steel, polished, and nickel plated.

HANDLE.—Polished Cocobolo with Screw Cap.

GEARS.—All three Gears, the large rack and the two small pinions, have cut teeth, and are nickel plated to prevent rusting; these pinions running on opposite sides of the large gear equalize the bearing.

CHUCK.—Three-jawed; capacity 0 to $\frac{5}{32}$ inch, with knurled nickel-plated shell. Constructed entirely of steel, with hardened Jaws.

EQUIPMENT.—Eight Fluted Drill Points from $\frac{1}{16}$ to $\frac{1}{8}$ inch furnished with each tool, all contained in handle.

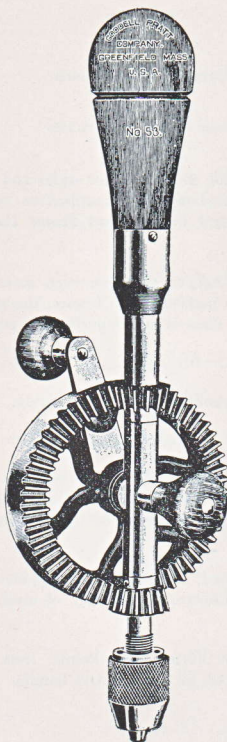
Price, per dozen. (ROST) \$22.00

Packed one in a box, $11 \times 3\frac{1}{4} \times 2\frac{1}{4}$ inches.

Weight, 1 pound.

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Hand Drill

No. 53

Capacity 0 to $\frac{5}{32}$ inch

Chuck Patented August 13, 1895

This Hand Drill is of the same size as No. 52 shown and described on the preceding pages. The rack gear has a wide face which can be used in place of the crank handle for delicate work. It has also the added convenience of a small side handle as shown in cut.

LENGTH OVER ALL.—10 inches.

FRAME.—All Steel, polished, and nickel plated.

HANDLES.—Large Handle, Polished Cocobolo with Screw Cap; small Side Handle is also made of Polished Cocobolo.

GEARS.—All three Gears, the large rack with the wide face, and the two small pinions, have cut teeth and are nickel plated to prevent rusting; these pinions running on opposite sides of the large gear equalize the bearing.

CHUCK.—Three-jawed; capacity 0 to $\frac{5}{32}$ inch, with knurled nickel-plated shell. Constructed entirely of steel, with hardened Jaws.

EQUIPMENT.—Eight Fluted Drill Points from $\frac{1}{16}$ to $\frac{11}{64}$ inch furnished with each tool, all contained in handle.

Price, per dozen. (RIST) \$24.00

Packed one in a box, $10\frac{3}{4} \times 4 \times 3\frac{1}{4}$ inches.

Weight, $1\frac{3}{8}$ pounds.

Hand Drill

No. 4 $\frac{1}{2}$

Capacity 0 to $\frac{5}{32}$ inch

Chuck Patented August 13, 1895

As many users prefer a wooden handle to a metal one we have designed this Drill to answer their requirements.

HANDLE.—Polished Cocobolo, with Screw Cap.

FRAME.—Malleable Iron, well japanned.

GEARS.—Cut Teeth, nickel plated.

GUARD.—The Gears are held together by a Steel Guard, having every advantage of a Double Geared Drill.

CHUCK.—Three-jawed; capacity 0 to $\frac{5}{32}$ inch. It has a knurled nickel-plated shell and is made entirely of steel, with hardened Jaws.

EQUIPMENT.—Eight Fluted Drill Points, similar to those furnished with Automatic Drills, but having plain shanks, are furnished with each tool.

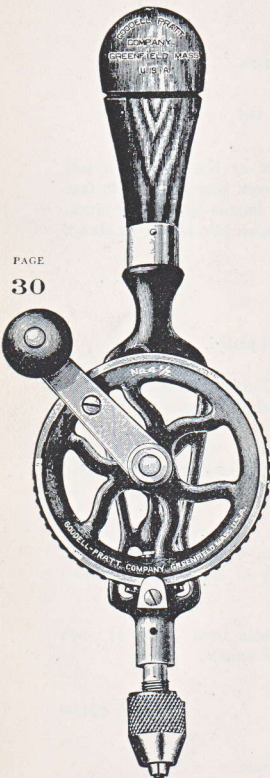
Price, per dozen (RANKLE) \$20.00

Each Drill packed in a box, 11 x 3 $\frac{1}{4}$ x 2 $\frac{1}{4}$ inches.

Weight, per dozen, 14 $\frac{1}{2}$ pounds.

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Hand Drill

No. 05

Capacity 0 to $\frac{1}{4}$ inch

Chuck Patented August 13, 1895

No Drill Points Furnished with this Tool

This Drill has capacity to $\frac{1}{4}$ inch, and is correspondingly larger and heavier than those previously described.

HANDLE.—Polished Hard Wood.

EXTRA SIDE HANDLE.—Polished Hard Wood; can be removed at will.

FRAME.—Malleable Iron, well japanned.

GEARS.—Cut Teeth, nickel plated.

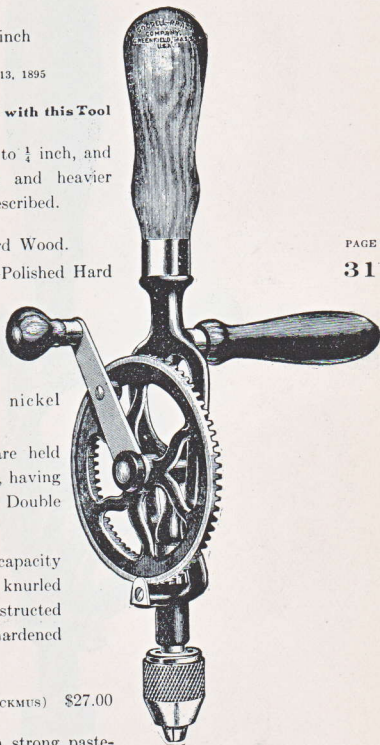
GUARD.—Both Gears are held together by a Steel Guard, having every advantage of a Double Geared Drill.

CHUCK.—Three-jawed; capacity 0 to $\frac{1}{4}$ inch. It has a knurled nickel-plated shell, is constructed entirely of steel, with hardened Jaws.

Price, per dozen. (RACKMUS) \$27.00

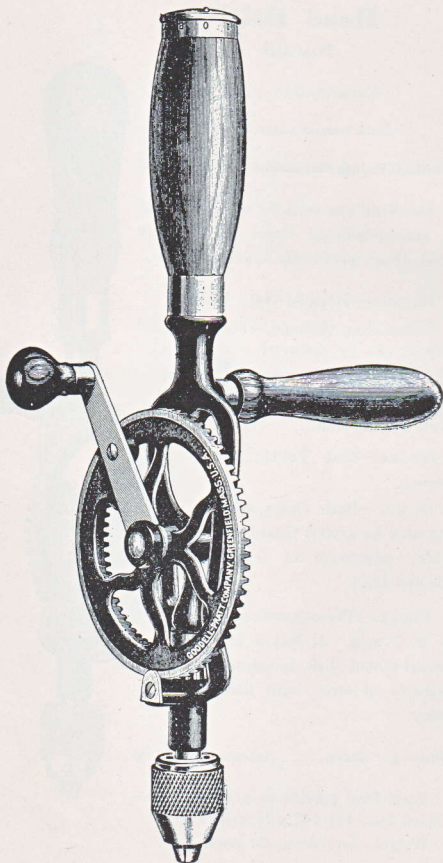
Each Drill packed in a strong paste-board box, $12\frac{3}{4} \times 3\frac{3}{4} \times 2\frac{1}{2}$ inches.

Weight, per dozen, 20 pounds.



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Hand Drill

No. 5

Capacity 0 to $\frac{1}{4}$ inch

Chuck Patented August 13, 1895

This Drill, having capacity to $\frac{1}{4}$ inch, is correspondingly larger and heavier than the smaller sizes previously described.

HANDLE.—Polished Hard Wood, with patent Drill receptacle containing the eight Drill Points, each in a separate numbered compartment.

EXTRA SIDE HANDLE.—Polished Hard Wood; can be removed at will.

FRAME.—Malleable Iron, well japanned.

GEARS.—Cut Teeth, nickel plated.

GUARD.—The Gears are held together by a Steel Guard, having every advantage of a Double Geared Drill.

CHUCK.—Three-jawed; capacity 0 to $\frac{1}{4}$ inch. It has a knurled nickel-plated shell and is made entirely of steel, with hardened Jaws.

EQUIPMENT.—Eight Fluted Drill Points are furnished with each tool, all contained in the handle.

Price, per dozen..... (RACKET) \$36.00

Each Drill packed in a strong pasteboard box, $12\frac{3}{4} \times 3\frac{1}{4} \times 2\frac{1}{2}$ inches.

Weight, per dozen, 20 pounds.

Hand Drill No. 54

Capacity 0 to $\frac{1}{4}$ inch

Chuck Patented August 13, 1895

Handle Patented September 30, 1890; November 17, 1891

This Drill having a larger Chuck capacity is a little longer and heavier than those of steel frame design described on earlier pages, but is of the same style of construction.

LENGTH OVER ALL.— $11\frac{1}{2}$ inches.

HANDLES.—Polished Hard Wood. The large Handle has a magazine turret head with a separate numbered compartment for each of the eight Drill Points.

FRAME.—All Steel polished and nickel plated.

GEARS.—All three Gears, the large rack, and the two pinions, have cut teeth and are nickel plated to prevent rusting.

CHUCK.—Three-jawed; capacity 0 to $\frac{1}{4}$ inch. It has a knurled nickel-plated shell and is made entirely of steel, with hardened Jaws.

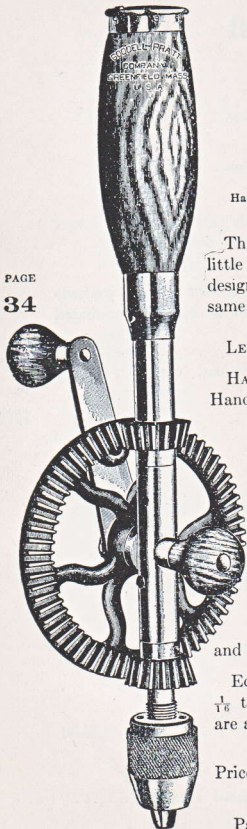
EQUIPMENT.—Eight Fluted Drill Points from $\frac{1}{16}$ to $\frac{11}{64}$ inch furnished with each tool. These are all contained in the handle.

Price, per dozen.....(RUST) \$32.00

Packed one in a box, $12 \times 3\frac{3}{4} \times 3\frac{1}{4}$ inches.
Weight, $1\frac{5}{8}$ pounds.

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Hand Drill

No. 154

Capacity 0 to $\frac{3}{8}$ inch

Chuck Patented August 13, 1895.

This Drill, although double geared, has but one speed, and is made for a large and heavy Hand Drill of simple design. It measures 16 inches over all.

FRAME.—All Steel, polished and nickel plated.

HANDLES.—Polished Hard Wood. The End Handle is hollow, with a Screw Cap for holding extra Drills.

GEARS.—All three Gears, the large rack, and the two small pinions have cut teeth.

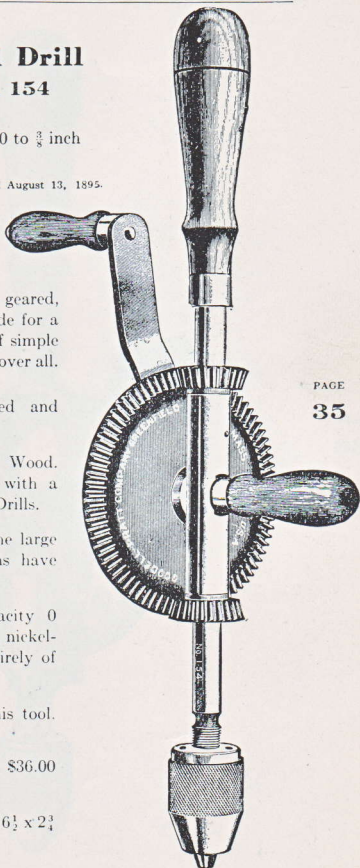
CHUCK.—Three-jawed; capacity 0 to $\frac{3}{8}$ inch. It has knurled, nickel-plated shell. Constructed entirely of steel, with hardened Jaws.

No Drills furnished with this tool.

Price, per dozen (RAMROD) \$36.00

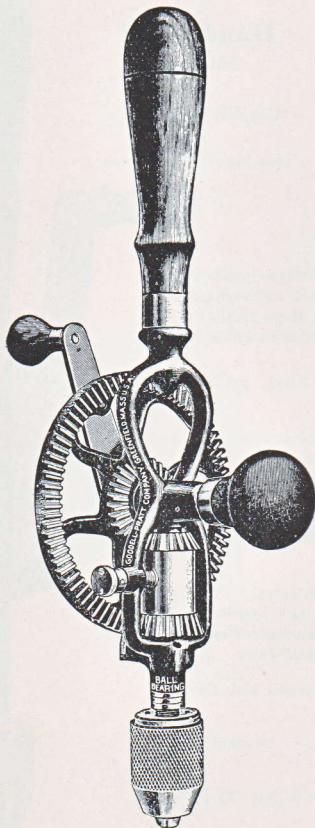
Packed one in a box, $15 \times 6\frac{1}{2} \times 2\frac{3}{4}$ inches.

Weight, 3 pounds.



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Hand Drill

No. 5 $\frac{1}{2}$

Capacity 0 to $\frac{3}{8}$ inch

Patented August 13, 1895; March 31, 1896

This Drill embraces features never before used upon tools of this character, and is unquestionably the finest ever produced.

It has Double Gears, Two Speeds, and a Chuck, with capacity to $\frac{3}{8}$ inch, as noted below.

FRAME.—Malleable Iron, japanned.

HANDLE.—Polished Cocobolo, Screw Cap.

GEARS.—Cut Teeth.

SPEEDS.—It has Two Speeds, changed by turning the nut on the frame marked "Fast" and "Slow."

SPINDLE.—Lathe turned, fitted with Ball Bearings at point shown in cut; the ends run in a hardened Cone Bearing.

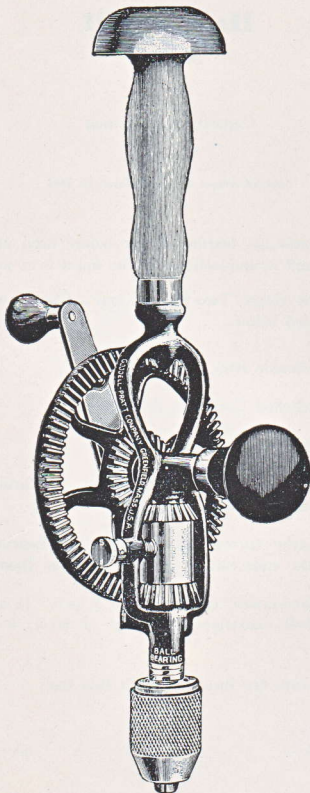
CHUCK.—Three-jawed; capacity 0 to $\frac{3}{8}$ inch. It has a knurled nickel-plated shell constructed entirely of steel, with hardened Jaws.

No Drill Points are furnished with this tool.

Price, per dozen..... (RACCOON) \$42.00

Each Drill packed in a box, 15 x 4 $\frac{1}{4}$ x 3 $\frac{1}{4}$ inches.

Weight, per dozen, 32 pounds.



Hand and Breast Drill

No. 5 $\frac{1}{2}$ B

Capacity 0 to $\frac{3}{8}$ inch

Patented August 13, 1895; March 31, 1896

This tool is intended to fill a long-felt want for a Combination Hand and Breast Drill, the shape of the handle admitting of its use the latter way.

Its capacity is to $\frac{3}{8}$ inch; and it has Two Speeds, facilitating the use of large-size Drills.

It has Double Gears, Two Speeds, and a Chuck, with capacity to $\frac{3}{8}$ inch, as noted below.

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FRAME.—Malleable Iron, japanned.

HANDLE.—Polished Hard Wood, Large Head.

GEARS.—Cut Teeth.

SPEEDS.—It has Two Speeds, changed by turning the nut on the frame marked "Fast" and "Slow."

SPINDLE.—Lathe turned, fitted with Ball Bearings at point shown in cut; the end runs in a hardened Cone Bearing.

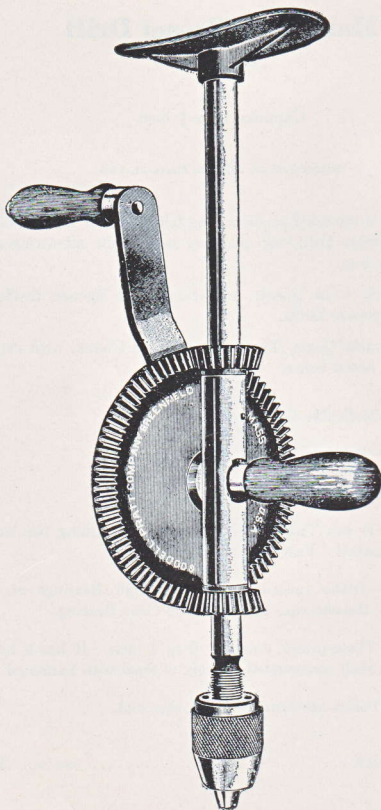
CHUCK.—Three-jawed; capacity 0 to $\frac{3}{8}$ inch. It has a knurled nickel-plated shell constructed entirely of steel with hardened Jaws.

No Drill Points are furnished with this tool.

Price, per dozen.....(RECASE) \$42.00

Each Drill packed in a box, 15 x 4 $\frac{1}{4}$ x 3 $\frac{1}{4}$ inches.

Weight, per dozen, 33 pounds.



Breast Drill

No. 55

Capacity 0 to $\frac{3}{8}$ inch

Chuck Patented August 13, 1895

For Round Shanks Only

This Breast Drill, while double geared, has only one speed, both pinions running on the outside of the rack gear.

FRAME.—All Steel, polished, and nickel plated.

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HANDLES.—Polished Hard Wood.

LENGTH OVER ALL.— $14\frac{1}{2}$ inches.

GEARS.—All Cut Teeth.

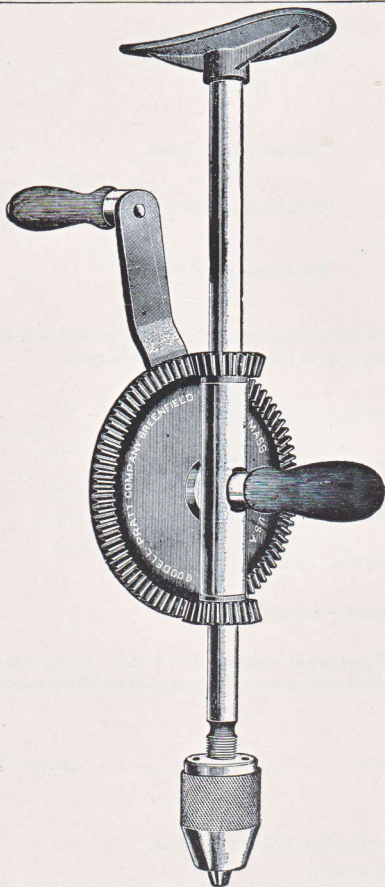
BREAST PLATE.—Adjustable.

CHUCK.—Three-jawed; capacity 0 to $\frac{3}{8}$ inch. It has a knurled nickel-plated shell constructed entirely of steel with hardened Jaws.

Price, per dozen.....(RUTE) \$42.00

Packed one in a box, $15 \times 6\frac{1}{2} \times 2\frac{3}{4}$ inches.

Weight, $4\frac{1}{2}$ pounds.



Breast Drill

No. 56

Capacity 0 to $\frac{1}{2}$ inch

Chuck Patented August 13, 1895

For Holding Round Shanks Only

This Breast Drill, while double geared, has only one single speed, both pinions running on the outside of the rack gear.

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FRAME.—All Steel, polished, and nickel plated.

HANDLES.—Polished Hard Wood.

LENGTH OVER ALL.—15 inches.

GEARS.—All Cut Teeth.

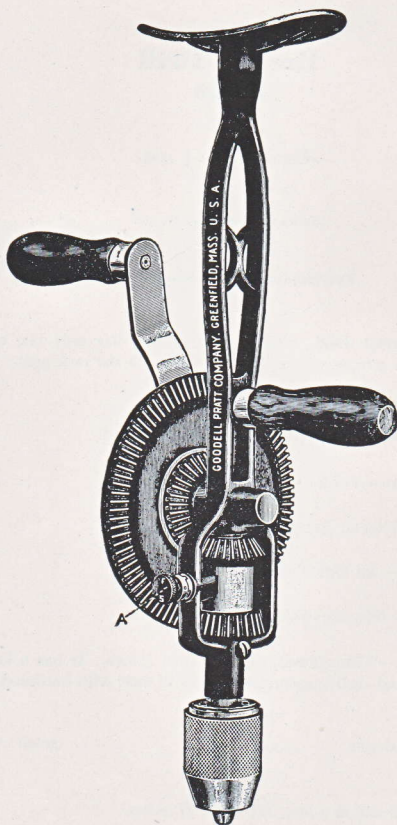
BREAST PLATE.—Adjustable.

CHUCK.—Three-jawed; capacity 0 to $\frac{1}{2}$ inch. It has a knurled nickel-plated shell constructed entirely of steel with hardened Jaws.

Price, per dozen.....(RUEX) \$48.00

Packed one in a box, $15\frac{1}{4} \times 6\frac{1}{4} \times 2\frac{3}{4}$ inches.

Weight, $4\frac{1}{2}$ pounds.



Breast Drill No. 6

Patented August 13, 1895; March 31, 1896

We are herewith offering to the trade a Drill which we are confident embodies greater value in proportion to the price asked than any similar tool now on the market. This is a remarkable Drill and enjoys great popularity.

We would draw particular attention to the provision made to prevent wear on the spindle, the steel pinions and the strength and reliability of the gear shifting device.

The cut shows the general appearance, its various features we enumerate as follows:

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FRAME.—Malleable Iron, japanned.

HANDLES.—Polished Hard Wood.

GEARS.—Cut Teeth, the pinions are of steel.

SPEEDS.—It has Two Speeds, changed by turning the nut on the frame marked "Fast" and "Slow."

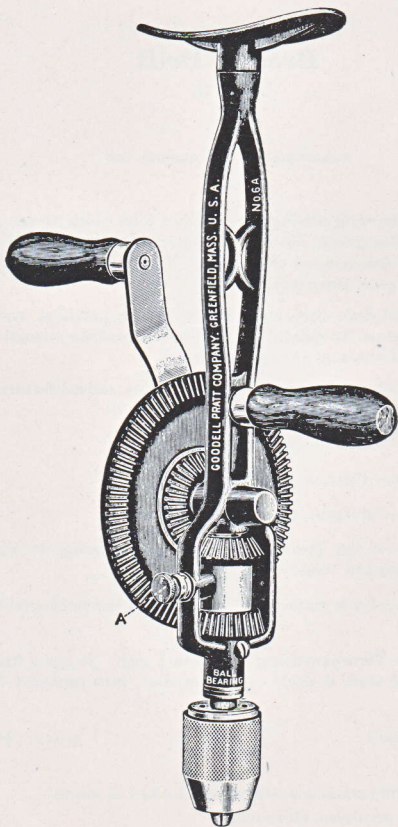
SPINDLE.—Lathe turned; the end runs in a hardened steel Cone Bearing.

CHUCK.—Three-jawed; capacity 0 to $\frac{1}{2}$ inch. It has a knurled nickel-plated shell, is made entirely of steel, with hardened Jaws.

Price, per dozen (RACER) \$48.00

Each Drill packed in a strong box, 17 x $5\frac{3}{4}$ x $3\frac{1}{4}$ inches.

Weight, per dozen, 60 pounds.



Breast Drill No. 6A

Patented August 13, 1895; March 31, 1896

This Drill is similar in all respects to the No. 6 previously described but in addition has its spindle equipped with Ball Bearings. This feature makes an easier running tool upon heavy work and by reducing the wear upon the spindle greatly increases the amount of service which may be obtained from the Drill.

In addition to, and supplementing the Ball Bearings, the end of the spindle runs in a hardened steel Cone Bearing guarding the tool very thoroughly against wear.

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FRAME.—Malleable Iron, japanned.

HANDLES.—Polished Hard Wood.

GEARS.—Cut Teeth; the pinions are of steel.

SPEEDS.—It has Two Speeds, changed by turning the nut on the frame marked "Fast" and "Slow."

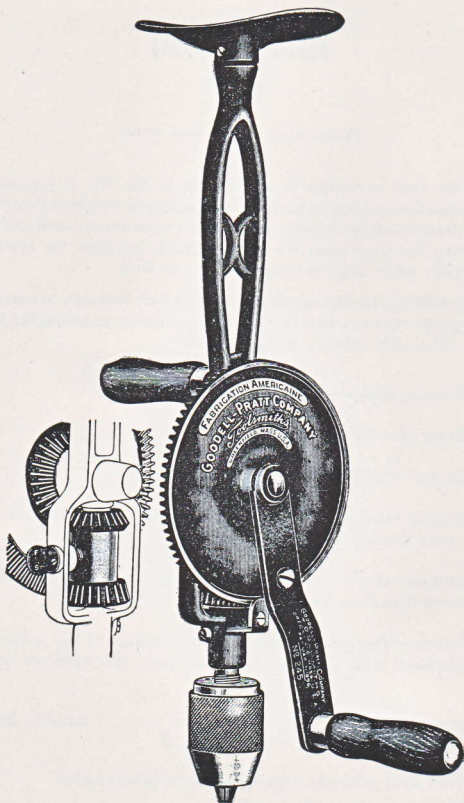
SPINDLE.—Lathe turned; Ball Bearings; the end runs in a hardened steel Cone Bearing.

CHUCK.—Three-jawed; capacity 0 to $\frac{1}{2}$ inch. It has a knurled nickel-plated shell, is made entirely of steel, with hardened Jaws.

Price, per dozen.....(REBEC) \$50.00

Each Drill packed in a strong box, 17 x $5\frac{3}{4}$ x $3\frac{1}{4}$ inches.

Weight, per dozen, 60 pounds.



Breast Drill

No. 245

Patented August 13, 1895; March 31, 1896

This Breast Drill is similar in design and general form of construction to those previously described, but the metal parts are without the protection of nickel plate and other economies are introduced in its finish and construction which enable us to offer it at a somewhat lower price. It will be found to be a Drill of excellent value, considering its cost, and those who desire a Breast Drill for Round Shanks to be sold at a moderate price will be much pleased with this tool.

Its specifications are as follows:

PAGE

FRAME.—Malleable Iron, japanned.

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HANDLES.—Polished Hard Wood.

BREAST PLATE.—Adjustable.

GEARS.—Cut Teeth; the pinions are of steel.

SPEEDS.—It has Two Speeds, changed by turning the nut on the frame marked "Fast" and "Slow."

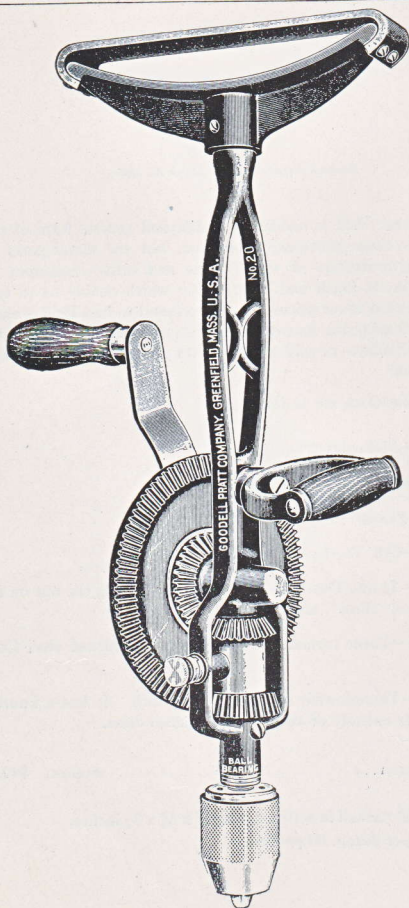
SPINDLE.—Lathe turned; the end runs in a hardened steel Cone Bearing.

CHUCK.—Three-jawed; capacity 0 to $\frac{1}{2}$ inch. It has a knurled shell, is made entirely of steel, with hardened Jaws.

Price, per dozen (RAQUET) \$42.00

Each Drill packed in a strong box, 17 x 5 $\frac{3}{4}$ x 3 $\frac{1}{4}$ inches.

Weight, per dozen, 60 pounds.



Breast Drill

No. 20

Fitted with Ball Bearings

Patented August 13, 1895; March 31, 1896

In size and capacity this tool is identical with the No. 6 shown and described on the preceding pages. It has, however, embodied in its construction numerous improvements making it particularly desirable for heavy duty or continuous use.

FRAME.—Malleable Iron, japanned.

GEARS.—All Cut Teeth; the pinions are of steel.

SPEEDS.—It has Two Speeds, changed by shifter marked "Fast" and "Slow."

BREAST PLATE.—Saddle design, large and heavy, with leather top, adding much to the ease of operating.

CHUCK.—Three-jawed; capacity 0 to $\frac{1}{2}$ inch. It has a knurled nickel-plated shell and is constructed entirely of steel, with hardened Jaws.

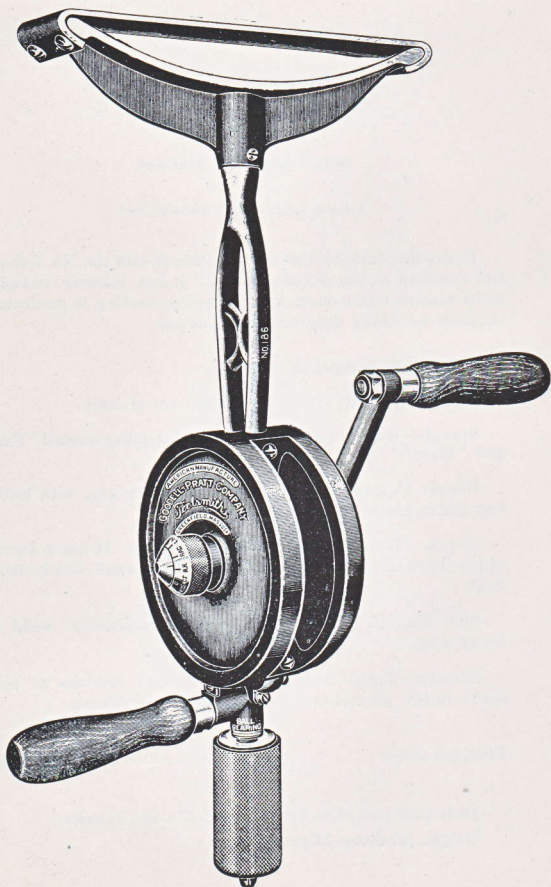
SIDE HANDLE.—Heavy grip pattern, particularly useful on heavy work.

SPINDLE.—Lathe turned, fitted with Ball Bearings at point shown in cut; the end runs in a hardened Cone Bearing.

Price, per dozen.....(RAFTER) \$60.00

Each Drill packed in a strong box, 17 x $5\frac{3}{4}$ x $3\frac{1}{4}$ inches.

Weight, per dozen, 85 pounds.



Ratchet Breast Drill

No. 186

Fitted with Ball Bearings

Patented March 31, 1896; October 25, 1910

To complete our line of Breast Drills we are offering this new design equipped with changes of speed and changes of motion, making it possible to operate at either fast or slow speed in the regular way—with a right hand ratchet motion, with a left hand ratchet motion, or with reciprocating motion, as may be desired; turning the knurled ring on the dial to the proper indicated point makes the desired change in the mechanism of the tool and brings into use the particular mechanism indicated. It has inclosed Gears, heavy Side and Crank Handles, and a Saddle Breast Plate, which will add much to the operator's comfort when operating a heavy machine of this character.

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FRAME.—Malleable Iron, japanned.

GEARS.—All Cut Teeth; the pinions are of steel.

SPEEDS.—It has Two Speeds, changed by shifter marked "Fast" and "Slow."

BREAST PLATE.—Saddle design, large and heavy, with leather top, adding much to the ease of operating.

CHUCK.—Three-jawed; capacity 0 to $\frac{1}{2}$ inch. It has a knurled nickel-plated shell and is constructed entirely of steel, with hardened Jaws.

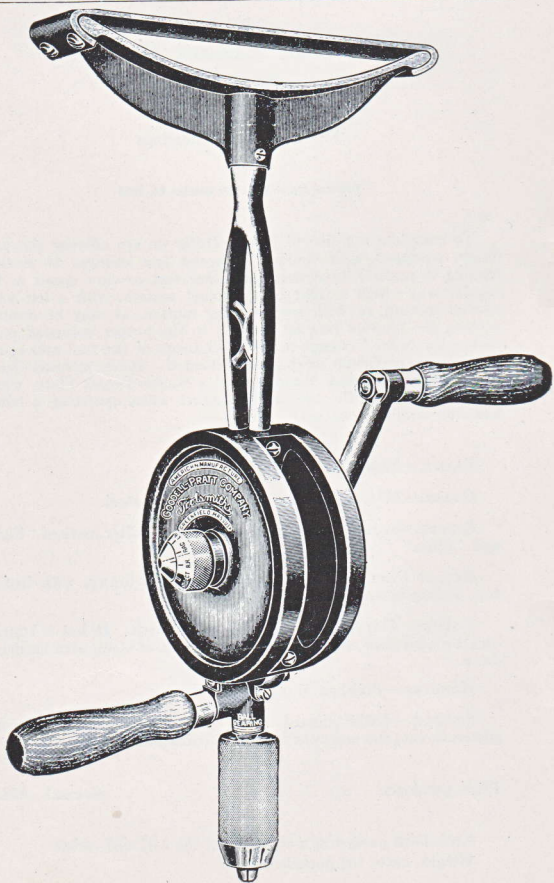
HANDLES.—Polished Hard Wood.

SPINDLE.—Lathe turned, fitted with Ball Bearings at point shown in cut; the end runs in a hardened Cone Bearing.

Price, per dozen. (RABBLE) \$78.00

Each Drill packed in a strong box, $16\frac{1}{4} \times 6\frac{1}{2} \times 4\frac{3}{4}$ inches.

Weight, each, $10\frac{1}{4}$ pounds.



Ratchet Breast Drill

No. 187

Fitted with Ball Bearings

Patented March 31, 1896: October 25, 1910

This Drill is the same in every particular as the No. 186, except that this tool is provided with a Chuck for holding square shank Drills only, the construction of this Chuck being on the order of a Bit Brace Chuck.

FRAME.—Malleable Iron, japanned.

GEARS.—All Cut Teeth; the pinions are of steel.

SPEEDS.—It has Two Speeds, changed by shifter marked "Fast" and "Slow."

BREAST PLATE.—Saddle design, large and heavy, with leather top, adding much to the ease of operating.

CHUCK.—Two-jawed, well made, and nickel plated, for holding Square Shank Drills only.

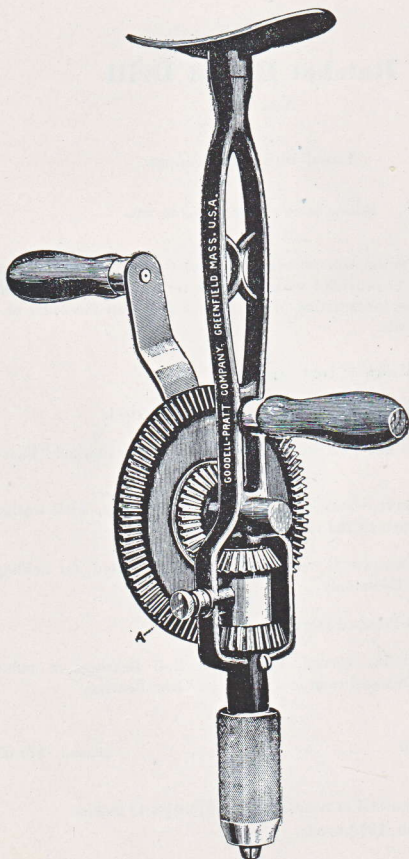
HANDLES.—Polished Hard Wood.

SPINDLE.—Lathe turned, fitted with Ball Bearings at point shown in cut; the end runs in a hardened Cone Bearing.

Price, per dozen (RADIX) \$72.00

Each Drill packed in a strong box, $16\frac{1}{4} \times 6\frac{1}{2} \times 4\frac{3}{4}$ inches.

Weight, each, $10\frac{1}{4}$ pounds.



Breast Drill

No. 07

For Square Shanks

This Breast Drill is identical with our No. 6 previously described, except in the Chuck with which it is equipped. This Chuck is designed for holding square shank Drills only.

FRAME.—Malleable Iron, japanned.

GEARS.—Cut Teeth; the pinions are of steel.

SPEEDS.—It has Two Speeds, changed by turning the nut on the frame marked "Fast" and "Slow."

BREAST PLATE.—Adjustable; its position can be changed if desired.

CHUCK.—Well made and nickel plated; holds Square Shank Drills only.

SPINDLE.—Lathe turned, the end runs in a hardened steel Cone Bearing.

Price, per dozen.....(RADJIB) \$36.00

Packed one in a box, $17 \times 5\frac{3}{4} \times 3\frac{1}{4}$ inches.

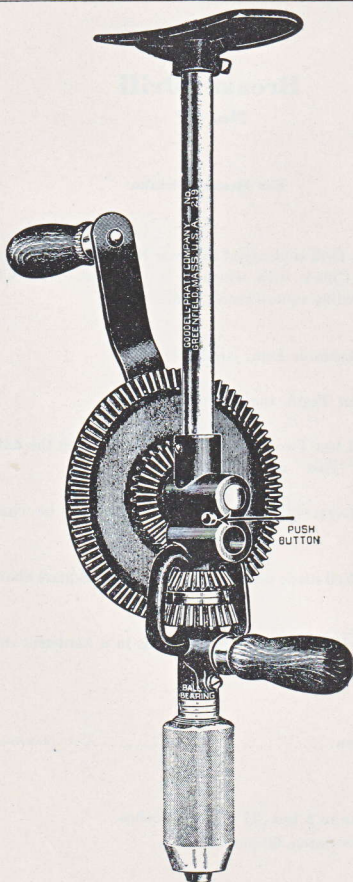
Weight, per dozen, 60 pounds.

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Breast Drill

No. 219

For Square Shanks

In designing this tool we have endeavored to produce a two-speeded Breast Drill which can be sold at a very moderate price and yet embrace features which will make it of exceptional value to the user.

The materials are all of the very best; the workmanship, finish, and general characteristics of the tool are in keeping with those so well known in connection with our more expensive styles.

We would draw particular attention to the pinion gears, which are entirely separate and distinct for each of the two speeds. This is, we believe, a feature never before employed in a Breast Drill where the change of speed is accomplished by a change of bearing for the driving gear.

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We invite careful attention to the specifications which follow:

FRAME.—Iron, japanned, with polished steel shank extending to the Breast Plate.

GEARS.—Cut from solid blanks; the pinions are of steel and are entirely separate for each speed.

SPEEDS.—Two, changed by pressing upon the push pin on the frame; this releases the Gear Shaft, which may then be drawn out and inserted in the other bearing, where a Spring Latch catches and holds it in place.

BREAST PLATE.—Adjustable, finished in japan.

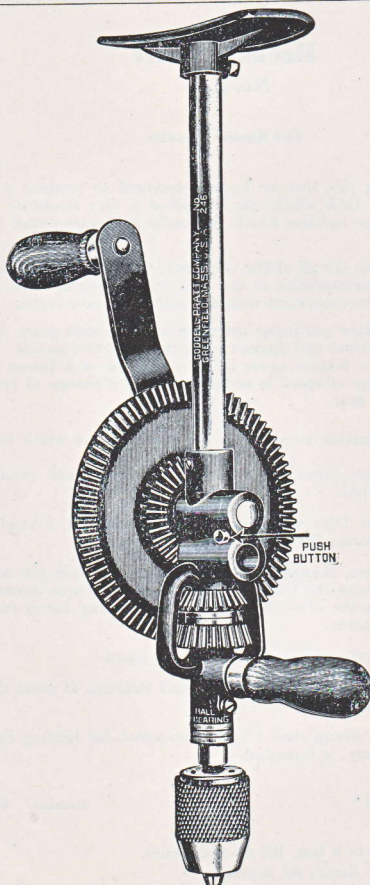
BALL BEARINGS.—Spindle runs in Ball Bearings at point shown in cut.

CHUCK.—A strong steel Chuck, two-jawed for holding Square Shank Drills only, is furnished.

Price, per dozen.....(RAMMER) \$30.00

Packed one in a box, $10\frac{1}{2} \times 6 \times 3\frac{1}{4}$ inches.

Weight, per dozen, 60 pounds.



Breast Drill

No. 246

For Round Shanks

This Drill is the same in every particular as the No. 219 shown on the preceding pages, except that this tool is provided with a Chuck for holding round shank Drills, capacity 0 to $\frac{3}{8}$ inch.

FRAME.—Iron, japanned, with polished steel shank extending to the Breast Plate.

BREAST PLATE.—Adjustable, finished in japan.

GEARS.—Cut from solid blanks; the pinions are of steel and are entirely separate for each speed.

SPEEDS.—Two, changed by pressing upon the push pin on the frame; this releases the Gear Shaft, which may then be drawn out and inserted in the other bearing, where a Spring Latch catches and holds it in place.

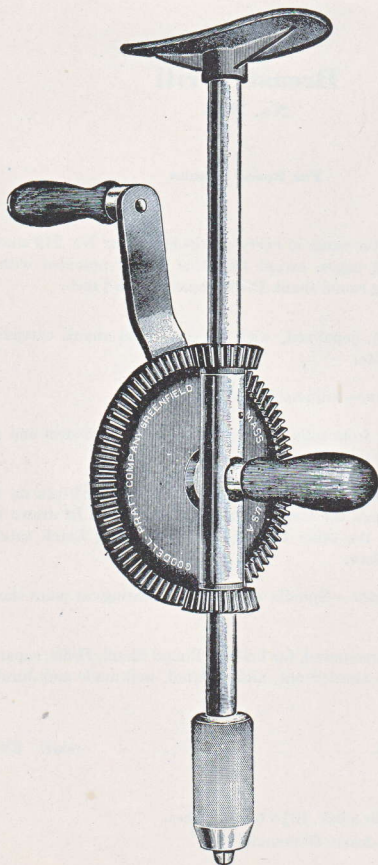
BALL BEARINGS.—Spindle runs in Ball Bearings at point shown in cut.

CHUCK.—Three-jawed, for holding Round Shank Drills; capacity 0 to $\frac{3}{8}$ inch; has knurled nut, nickel plated, well made and durable.

Price, per dozen (RIOT) \$36.00

Packed one in a box, $10\frac{1}{2}$ x 6 x $3\frac{1}{4}$ inches.

Weight, per dozen, 60 pounds.



Breast Drill

No. 57

For Square Shanks

The construction of this Drill is identical with the No. 56, except in the Chuck; the one used upon this tool is the same that we use upon our No. 07, for holding square shank Drills only, and has but one pair of jaws.

FRAME.—All Steel, polished, and nickel plated.

LENGTH OVER ALL.— $14\frac{1}{2}$ inches.

GEARS.—All Cut Teeth; the pinions are of steel.

BREAST PLATE.—Adjustable.

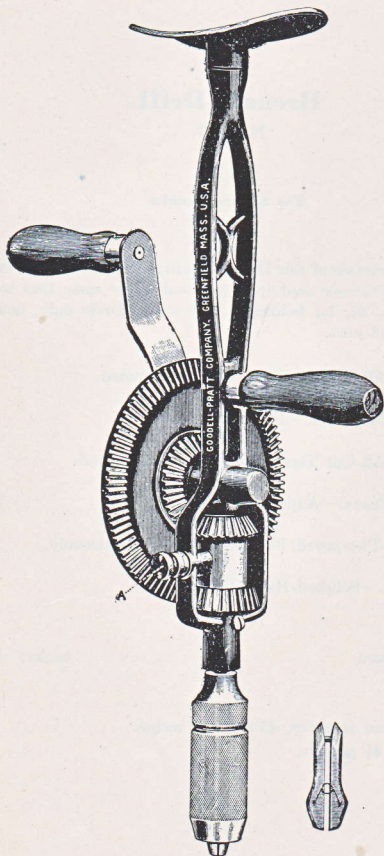
CHUCK.—Two-jawed, for holding Square Shanks only.

HANDLES.—Polished Hard Wood.

Price, per dozen (RULET) \$33.00

Packed one in a box, $15 \times 6\frac{1}{4} \times 2\frac{3}{4}$ inches.

Weight, $4\frac{1}{4}$ pounds.



Breast Drill No. 7

Patented March 31, 1896

This Drill is the same in every particular as the No. 6 previously described, except that it has an improved Brace Chuck with two sets of Jaws, one for holding round and the other square shank Drills.

FRAME.—Malleable Iron, japanned.

GEARS.—Cut Teeth; the pinions are of steel.

SPEEDS.—It has Two Speeds, changed by turning the nut on the frame marked "Fast" and "Slow."

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BREAST PLATE.—Adjustable, its position can be changed if desired.

SPINDLE.—Lathe turned; the end runs in a hardened steel Cone Bearing.

CHUCK.—Well made and nickel plated; furnished with two sets of Jaws, for Round and Square Shanks.

Price, per dozen.....(RADISH) \$42.00

Packed in strong boxes, $17 \times 5\frac{3}{4} \times 3\frac{1}{4}$ inches.

Weight, per dozen, 60 pounds.

Breast Drill

No. 61, M. T.

This tool is in every way identical with our Breast Drill No. 6, except that in place of the Chuck it is fitted with a Morse Taper Socket, No. 1, suitable for holding Twist Drills, Reamers, or, in fact, any tools with No. 1 Morse Taper Shanks.

Price, per dozen (RANCER) \$48.00

Packed one in a box, 17 x 5½ x 3 inches.

Weight, per dozen, 60 pounds.

Breast Drill

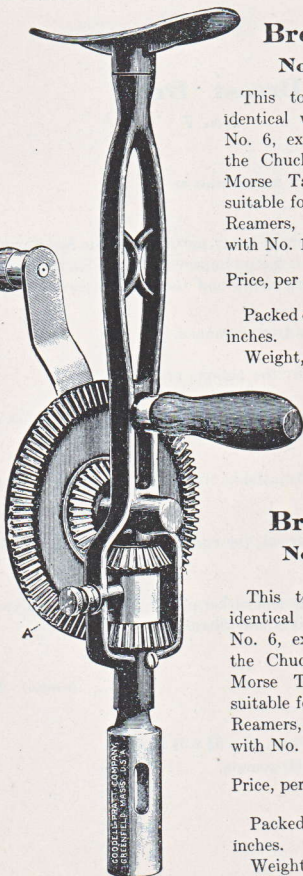
No. 62, M. T.

This tool is in every way identical with our Breast Drill No. 6, except that in place of the Chuck it is fitted with a Morse Taper Socket, No. 2, suitable for holding Twist Drills, Reamers, or, in fact, any tools with No. 2 Morse Taper Shanks.

Price, per dozen (RALGER) \$48.00

Packed one in a box, 17 x 5½ x 3 inches.

Weight, per dozen, 60 pounds.

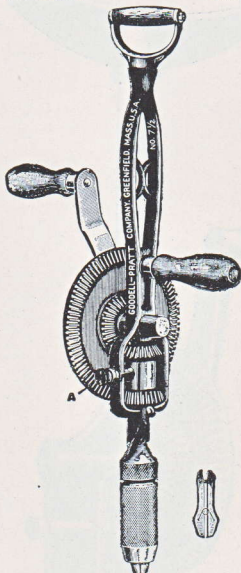


Breast Drill

No. 7 $\frac{1}{2}$

With Bit Brace Chuck

Two Sets of Jaws



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This Drill will be found identical with the No. 7, shown and described on pages 64 and 65, except that instead of a Breast Plate this tool is equipped with a Grip Handle, which will at once be appreciated by those desiring to use Auger Bits.

Price, per dozen (RADILE) \$42.00

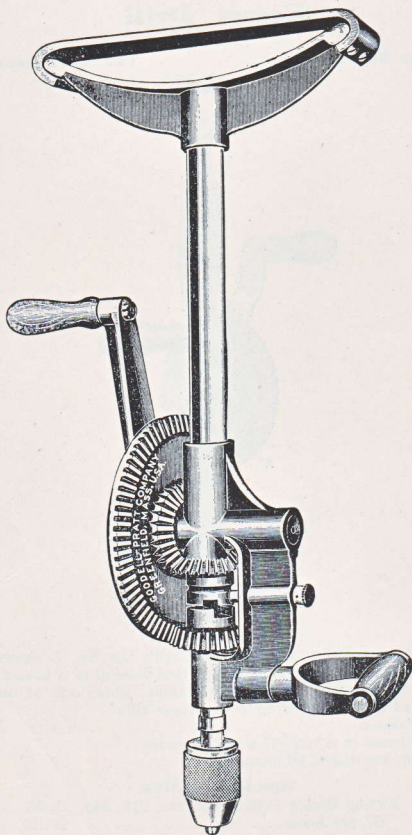
Packed one in a box, 17 x 5 $\frac{3}{4}$ x 3 $\frac{1}{4}$ inches.

Weight, per dozen, 60 pounds.

Spade Handles

No. 188. Fitting Breast Drills, Nos. 245, 219, 246, 55, 56, 57, per dozen (RALE) \$3.00

No. 189. Fitting Breast Drills, Nos. 6, 6A, 7, 7 $\frac{1}{2}$, per dozen (RALLY) 3.00



Giant Breast Drill

No. 58

Capacity 0 to $\frac{1}{2}$ inch

Chuck Patented August 13, 1895

We have found from experience that different classes of work require different tools if the highest efficiency is to be maintained, and for some classes of work running nearly or quite $\frac{1}{2}$ inch the ordinary Breast Drill is not sufficiently heavy. For this heavy work we have designed the Giant Breast Drills described on this and the pages immediately following.

The specifications follow:

FRAME.—Malleable Iron, japanned.

GEARS.—Cut Teeth.

SPEEDS.—It has Two Speeds, changed by turning the nut on the frame marked "Fast" and "Slow."

BREAST PLATE.—Saddle design, pressure comes against leather strap.

SIDE HANDLE.—Grip pattern, enables the Drill to be held steadily.

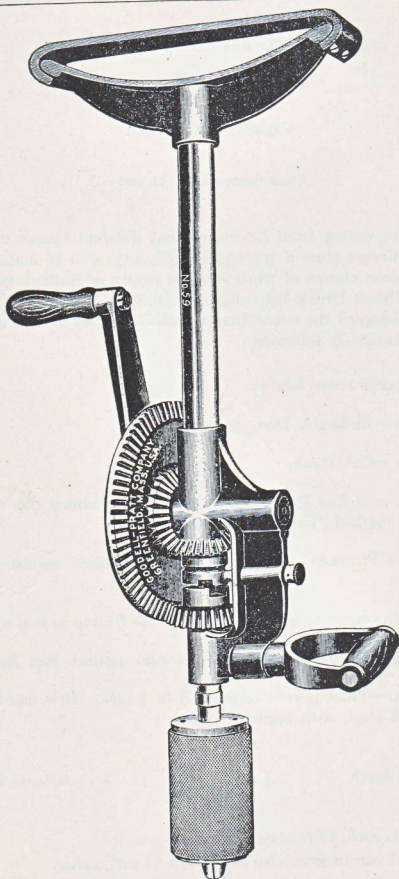
SPINDLE.—Lathe turned; the end runs against Ball Bearings.

CHUCK.—Three-jawed; capacity 0 to $\frac{1}{2}$ inch. It is constructed entirely of steel, with hardened Jaws.

Price, per dozen.....(RABBIT) \$100.00

Weight, each, 13 pounds.

Packed one in a wooden box, $14\frac{1}{4}$ x $7\frac{1}{2}$ x $6\frac{1}{4}$ inches.



Giant Breast Drill

No. 59

Capacity 0 to $\frac{3}{4}$ inch

Chuck Patented August 13, 1895

Careful scrutiny of the cut on the opposite page, added to a study of the dimensions noted below, cannot fail to convey in an impressive manner the power, strength, and size of this machine.

DIMENSIONS.—Length, 23 inches; Breast Plate, 10 inches long; Weight, 16 pounds.

FRAME.—Malleable Iron, japanned.

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GEARS.—Cut Teeth.

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SPEEDS.—It has Two Speeds, changed by turning the nut on the frame marked "Fast" and "Slow."

BREAST PLATE.—Saddle design, pressure comes against leather strap.

SIDE HANDLE.—Grip pattern, enables the Drill to be held steadily.

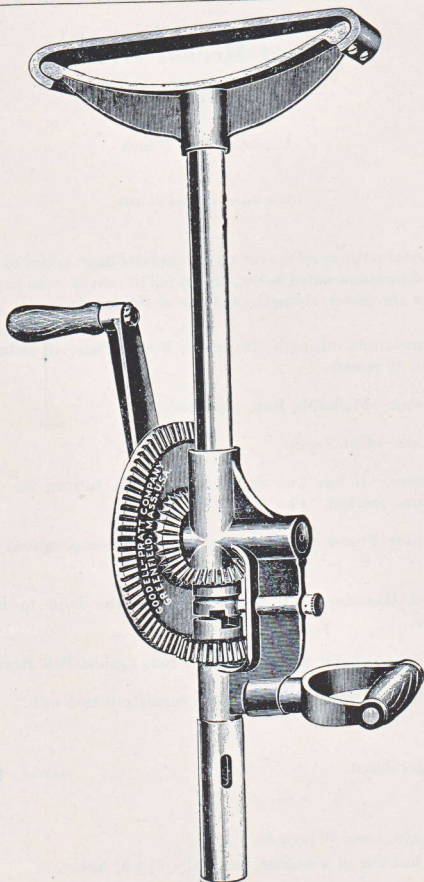
SPINDLE.—Lathe turned; the end runs against Ball Bearings.

CHUCK.—Strong and well made; capacity 0 to $\frac{3}{4}$ inch.

Price, per dozen..... (RAJAH) \$120.00

Weight, each, 16 pounds.

Packed one in a wooden box, $14\frac{1}{4}$ x $7\frac{1}{2}$ x $6\frac{1}{4}$ inches.



Giant Breast Drill No. 60

This Breast Drill is in every way identical with the No. 59, shown and described on the preceding pages, except in the matter of the Chuck; this tool has no Chuck but is provided with a No. 2 Morse Taper Socket for holding Drills or other tools having a No. 2 Morse Taper Shank.

The user can at any time procure a Drill Chuck for use in connection with this tool, and by having his Chuck fitted with a No. 2 Morse Taper Shank can use it without difficulty.

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Price, per dozen.....(RUSTIC) \$100.00

Weight, each, 13 pounds.

Packed one in a wooden box, $14\frac{1}{4}$ x $7\frac{1}{2}$ x $6\frac{1}{4}$ inches.

Combination Breast and Chain Drill

No. 7307

With Automatic Feed

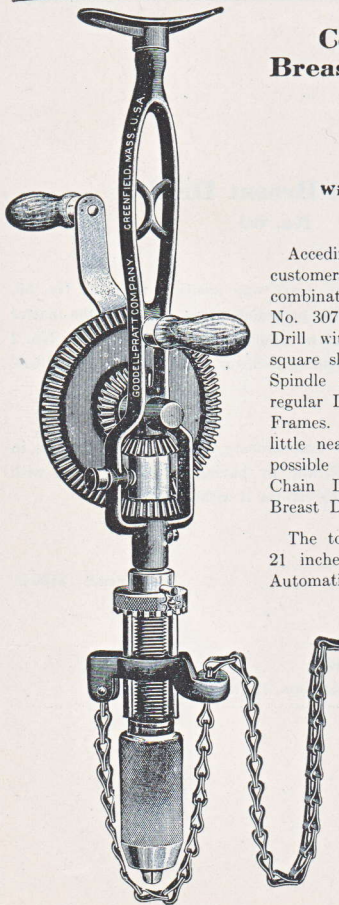
Acceding to the wishes of our customers, we are offering this combination tool. It consists of a No. 307 Automatic Feed Chain Drill with a Chuck for holding square shanks, and a special long Spindle attached to one of our regular Double Speed Breast Drill Frames. This brings the work a little nearer the operator than is possible where the shank of the Chain Drill is inserted into a Breast Drill or Brace Chuck.

The total length of the tool is 21 inches. It has Two Speeds, Automatic Feed, Cut Gears, Adjustable Breast Plate, Ball Bearings, and is equipped with three feet of steel Chain; finished after the usual manner of our Breast and Chain Drills.

Price, each (CROTE) \$5.00

Packed one in a box,
21 x 5½ x 3¼ inches,

Weight, 6¾ pounds.



Combination Breast and Chain Drill

No. 7316

With Automatic Feed

Chuck Patented August 13, 1895

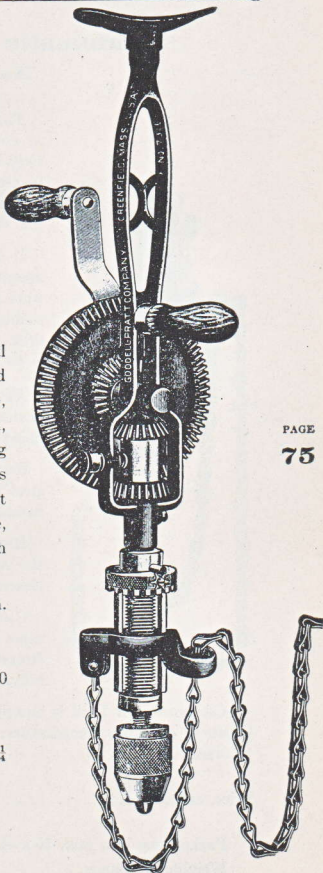
This tool is in every way identical with the No. 7307, shown and described on the preceding page, with the exception of the Chuck, which on this is suitable for holding round shanked Drills only. It has Two Speeds, Automatic Feed, Cut Gears, Adjustable Breast Plate, Ball Bearings, and is equipped with three feet of steel Chain.

Capacity of Chuck 0 to $\frac{1}{2}$ inch.

Price, each.....(CRAZE) \$7.00

Packed one in a box, $21 \times 5\frac{1}{2} \times 3\frac{1}{4}$ inches.

Weight, each, $6\frac{3}{4}$ pounds.

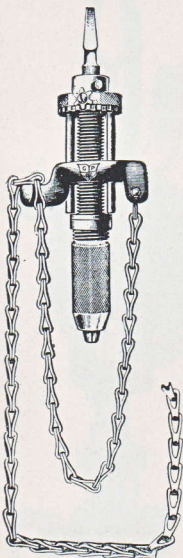


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Automatic Chain Drill

No. 307



This device will be found very useful in connection with a Brace or Breast Drill in places where it is not convenient to use a Ratchet Drill, or, in fact, anywhere that a chain can be passed around the work.

It does away with the necessity of the operator pushing his drill through the work by main force; the Automatic Feed pulling against the Chain drives the drill. All that is required of the operator is to turn the Brace or Breast Drill.

AUTOMATIC FEED.—A serviceable device which has proved its value by many years of satisfactory use.

SPINDLE.—The squared end of the steel Spindle is case hardened to prevent damage.

BALL BEARINGS.—The end thrust of the Automatic Feed is reduced by Ball Bearings.

CHUCK.—The Steel Chuck is of the same pattern as used on our No. 07 Breast Drill and will hold Square Shanks only.

CHAIN.—Each Drill is equipped with three feet of strong steel Chain of our own manufacture. Special lengths can be furnished to order.

Price, each.....(CHADRIL) \$3.00

Packed one in a box, 10 x 4 $\frac{3}{4}$ x 2 $\frac{1}{4}$ inches.

Weight, 2 $\frac{3}{4}$ pounds.

Automatic Chain Drill

No. 316

This tool is the companion to the No. 307 described on the preceding page. The working mechanism is identical in both. They differ only in the style of the Chuck, which upon this tool is three-jawed for the holding and accurate centering of round shank drills.

AUTOMATIC FEED.—A serviceable device which has proved its value by many years of satisfactory use.

SPINDLE.—The squared end of the steel Spindle is case hardened to prevent damage.

BALL BEARINGS.—The end thrust of the Automatic Feed is reduced by Ball Bearings.

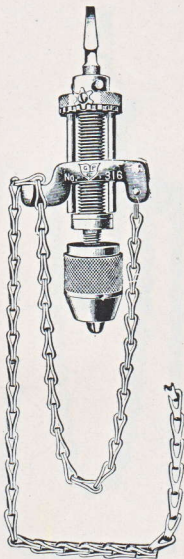
CHUCK.—A strong steel three-jawed Chuck; will securely hold and accurately center any Round Shank Drill from 0 to $\frac{1}{2}$ inch.

CHAIN.—Each Drill is equipped with three feet of strong steel Chain of our own manufacture. Special lengths can be furnished to order.

Price, each (CHALRID) \$5.00

Packed one in a box, $10 \times 4\frac{3}{4} \times 2\frac{1}{4}$ inches.

Weight, $2\frac{3}{4}$ pounds.

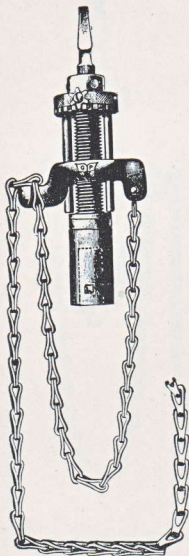


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Automatic Chain Drill

No. 308



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This tool is of the same mechanical construction and in every way identical with the Nos. 307 and 316, previously described, except in the matter of the Chuck, which upon this type is suitable for holding $\frac{1}{2}$ inch round shanks only. This Drill is thus not quite so comprehensive in the matter of the Chuck but enables us to offer an Automatic Feed Drill at a somewhat lower price.

AUTOMATIC FEED.—A serviceable device which has proved its value by many years of satisfactory use.

SPINDLE.—The squared end of the steel Spindle is case hardened to prevent damage.

BALL BEARINGS.—The end thrust of the Automatic Feed is reduced by Ball Bearings.

CHUCK.—The Chuck on this Drill consists of a socket with set screw for holding $\frac{1}{2}$ inch Round Shanks only

CHAIN.—Each Drill is equipped with three feet of strong steel Chain of our own manufacture. Special lengths can be furnished to order.

Price, each (CHAD) \$2.00

Packed one in a box, $10 \times 4\frac{3}{4} \times 2\frac{1}{4}$ inches.

Weight, $2\frac{3}{4}$ pounds.

Chain Drill

No. 0307

With Hand Feed

Experience has taught us that many mechanics prefer a plain screw feed on a Drill of this description, as they can then control absolutely the pressure upon their twist drill. It is also possible to furnish such a tool at a little lower price than when equipped with a device for furnishing Automatic Feed.

Aside from the Feed this tool is identical with our No. 307 Chain Drill.

SCREW FEED.—Controlled by turning the knurled end of the feed screw.

SPINDLE.—The squared end of the steel Spindle is case hardened to prevent damage.

BALL BEARINGS.—The end thrust of the feed is reduced by Ball Bearings.

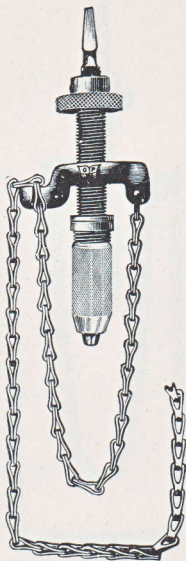
CHUCK.—The steel Chuck is of the same pattern as used on our No. 07 Breast Drill and will hold Square Shanks only.

CHAIN.—Each Drill is equipped with three feet of strong steel Chain of our own manufacture. Special lengths can be furnished to order.

Price, each..... (CHARL) \$2.50

Packed one in a box, 10 x 4 $\frac{3}{4}$ x 2 $\frac{1}{4}$ inches.

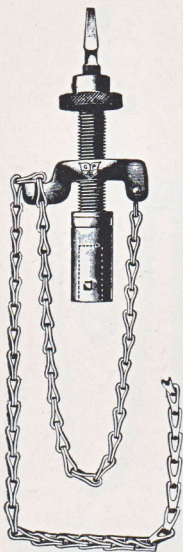
Weight, 2 $\frac{3}{4}$ pounds.



Chain Drill

No. 0308

With Hand Feed



This tool is of the same construction and in every way identical with the No. 0307, described on the preceding page, except in the matter of the Chuck which upon this type is suitable for holding $\frac{1}{2}$ -inch round shanks only. This Drill is thus not quite so comprehensive in the matter of the Chuck but will be appreciated by many on account of its low price.

SCREW FEED.—Controlled by turning the knurled end of the feed screw.

SPINDLE.—The squared end of the steel Spindle is case hardened to prevent damage.

BALL BEARINGS.—The end thrust of the feed is reduced by Ball Bearings.

CHUCK.—The Chuck on this Drill consists of a socket with set screw for holding $\frac{1}{2}$ -inch Round Shanks only.

CHAIN.—Each Drill is equipped with three feet of strong steel Chain of our own manufacture. Special lengths can be furnished to order.

Price, each.....(CHANT) \$1 50

Packed one in a box, $10 \times 4\frac{3}{4} \times 2\frac{1}{4}$ inches.

Weight, $2\frac{3}{4}$ pounds.

Chain Drill

No. 0316

With Hand Feed

This tool is the companion to the Nos. 0307 and 0308, previously described, and is of identical construction with the exception of the Chuck, which upon this style is three-jawed for the holding and accurate centering of round shank Drills.

SCREW FEED.—Controlled by turning the knurled end of the feed screw.

SPINDLE.—The squared end of the steel Spindle is case hardened to prevent damage.

BALL BEARINGS.—The end thrust of the feed is reduced by Ball Bearings.

CHUCK.—A strong steel three-jawed Chuck; will securely hold and accurately center any Round Shank Drill from 0 to $\frac{1}{2}$ inch.

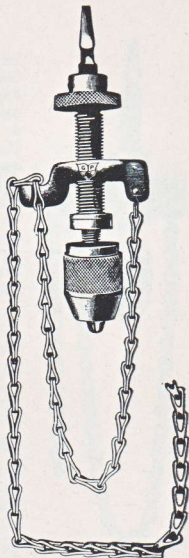
CHAIN.—Each Drill is equipped with three feet of strong steel Chain of our own manufacture. Special lengths can be furnished to order.

Price, each(CHANE) \$4.50

Packed one in a box, $10 \times 4\frac{3}{4} \times 2\frac{1}{4}$ inches.

Weight, $2\frac{3}{4}$ pounds.

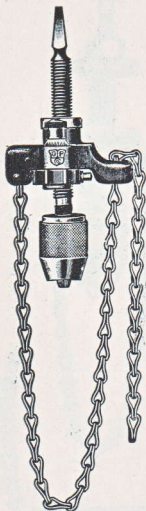
For Ratchet Attachment, see page 85.



Automatic Chain Drill

No. 326

Patented October 25, 1910



This Drill is equipped with a new Automatic Feed Device, one of the very important features of which is that until the Drill actually engages with the work, the Feed does not operate; the feed screw merely running through a threaded spool in the frame. Thus, after the twist drill has been tightened in the chuck and is to be run down to the work, or after the drilling is completed and it is desired to back out, the operator can run his drill up or down as fast as he can turn the spindle. In other styles of automatic feed one can only back out as fast as the Feed operates, or else the operator is obliged to turn the feed screw back with his fingers.

Another important feature of this feed is, that it is adjustable to any size of drill within its capacity. The amount of feed is governed by the knurled nut visible on the front of the frame and is absolutely controlled by the operator.

AUTOMATIC FEED.—Strong, quick in action, adjustable to different sizes of drills.

SPINDLE.—The squared end of the steel Spindle (which also forms the Feed Screw) is case hardened to prevent damage.

BALL BEARINGS.—The end thrust of the automatic feed is reduced by Ball Bearings.

CHUCK.—A strong steel three-jawed Chuck; will securely hold and accurately center any Round Shank Drill from 0 to $\frac{1}{2}$ inch.

CHAIN.—Each Drill is equipped with three feet of strong steel Chain of our own manufacture. Special lengths can be furnished to order.

Price, each.....(CHALDEE) \$5.00

Packed one in a box, $9\frac{3}{4} \times 4\frac{1}{2} \times 3\frac{1}{2}$ inches.

Weight, $3\frac{1}{4}$ pounds.

Automatic Chain Drill

No. 327

Patented October 25, 1910.

This Drill is of the same design and is equipped with the same Adjustable Inter-mittent Friction Feed as that upon the No. 326, described on the preceding page. This tool, however, varies from the other in the style of Chuck with which it is equipped; on this Drill the Chuck holds square shank Drills only.

These Drills equipped with our new Automatic Feed are, we believe, the most efficient and quickest in action that have yet been designed, and by setting the controlling nut in accordance with the drill sizes shown upon the dial the correct Feed for each size will be obtained.

AUTOMATIC FEED.—Strong, quick in action; adjustable to different sizes of drills.

SPINDLE.—The squared end of the steel Spindle (which also forms the Feed Screw) is case hardened to prevent damage.

BALL BEARINGS.—The end thrust of the automatic feed is reduced by Ball Bearings.

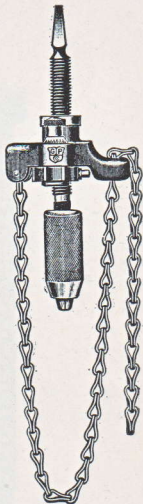
CHUCK.—The steel Chuck is of the same pattern as used on our No. 07 Breast Drill and will hold Square Shanks only.

CHAIN.—Each Drill is equipped with three feet of strong steel Chain of our own manufacture. Special lengths can be furnished to order.

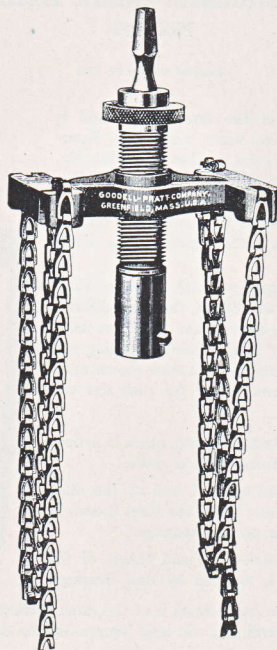
Price, each (CHALICE) \$3.00

Packed one in a box, $9\frac{3}{4} \times 4\frac{1}{2} \times 3\frac{1}{2}$ inches.

Weight, $3\frac{1}{4}$ pounds.



Giant Chain Drills



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These Chain Drills are much larger and heavier than any shown on the preceding pages. They have a 4 x 6 inch iron frame equipped with 5-foot chains.

Extreme length from end of shank to end of spindle, 9 inches.

They have ball-bearing thrust; hand feed; frame finished in japan; bright steel parts polished.

No. 317, has $\frac{1}{2}$ -inch Round Socket.

Price, each.....(CARP) \$3.50

No. 318, has No. 1 Morse Taper Socket.

Price, each.....(CUDER) 4.50

No. 319, has No. 2 Morse Taper Socket.

Price, each.....(CRUST) 4.50

Packed one in a box, 11 x 6 $\frac{1}{4}$ x 4 $\frac{1}{8}$ inches.

Ratchet Attachment for Chain Drills No. 81



This Attachment has been designed for use with our Chain Drills and greatly increases their field of usefulness in cramped quarters where the ordinary Brace or Breast Drill cannot be used.

The Iron Handle is 8 inches long, finished in japan, and the tool will work either right or left hand.

Price, each.....(DRILRAT) \$1.25

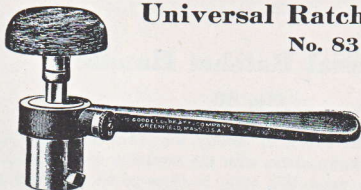
Packed one in a box, $8\frac{1}{2} \times 2\frac{3}{4} \times 2\frac{1}{4}$ inches.

Weight, $1\frac{1}{2}$ pounds.

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Universal Ratchet Handle No. 83



This tool has an Iron Handle 8 inches long, and a Shifter operating the Ratchet mechanism, which can be set for either right or left hand work; it has a ball-bearing Lignum-vitæ Head; the Socket has a square taper hole provided with a set screw for fastening the bit, screw-driver, or nut wrench.

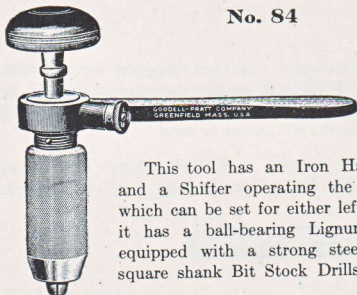
Price, each.....(TAPER) \$1.50

Packed one in a box, $8\frac{1}{2} \times 4\frac{3}{4} \times 2\frac{1}{2}$ inches.

Weight, $1\frac{3}{4}$ pounds.

Universal Ratchet Handle

No. 84



This tool has an Iron Handle 8 inches long, and a Shifter operating the Ratchet mechanism, which can be set for either left or right hand work; it has a ball-bearing Lignum-vitæ Head and is equipped with a strong steel Chuck for holding square shank Bit Stock Drills.

Price, each. (TACKLE) \$2.00

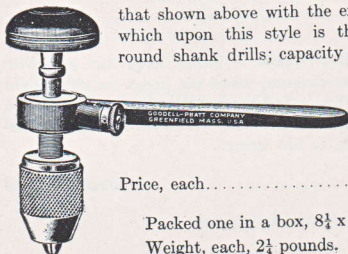
PAGE
86

Packed one in a box, $8\frac{1}{4} \times 6\frac{1}{4} \times 2\frac{1}{2}$ inches.

Weight, each, $2\frac{1}{2}$ pounds.

Universal Ratchet Handle

No. 85



This tool is of exactly the same description as that shown above with the exception of the Chuck, which upon this style is three-jawed for holding round shank drills; capacity 0 to $\frac{1}{2}$ inch.

Price, each. (TACTIC) \$4.00

Packed one in a box, $8\frac{1}{4} \times 6\frac{1}{4} \times 2\frac{1}{2}$ inches.

Weight, each, $2\frac{1}{4}$ pounds.

Ratchet Drill

No. 86



This Ratchet Drill is fitted with a three-jawed Chuck, capacity 0 to $\frac{1}{2}$ inch, and is provided with a Screw Feed, which can be operated by turning the knurled handle, or by using a lever in the steel center, where a hole is provided for this purpose.

The finish is identical with the various styles of Ratchet Handles shown and described on the preceding pages. The nickel plating and polishing of the Knurled Feed Handle add to the attractiveness of this tool.

Price, each (TAINT) \$6.00

Packed one in a box, $8\frac{1}{4} \times 8\frac{1}{4} \times 2\frac{1}{4}$ inches.

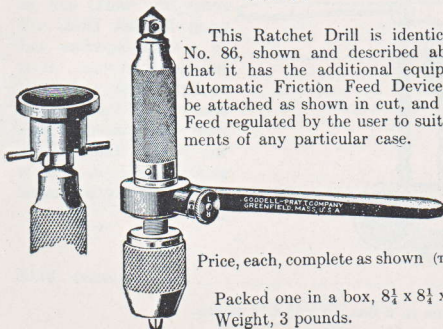
Weight, each, $2\frac{1}{4}$ pounds.

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87

Ratchet Drill with Automatic Feed

No. 87



This Ratchet Drill is identical with the No. 86, shown and described above, except that it has the additional equipment of an Automatic Friction Feed Device, which can be attached as shown in cut, and the Friction Feed regulated by the user to suit the requirements of any particular case.

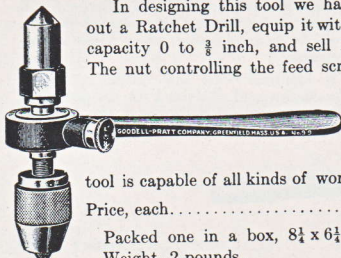
Price, each, complete as shown (TALLY) \$8.00

Packed one in a box, $8\frac{1}{4} \times 8\frac{1}{4} \times 2\frac{1}{4}$ inches.

Weight, 3 pounds.

Ratchet Drill

No. 99



In designing this tool we have endeavored to bring out a Ratchet Drill, equip it with a Three-jawed Chuck, capacity 0 to $\frac{3}{8}$ inch, and sell it at a moderate price. The nut controlling the feed screw is six-sided and can

be operated by an ordinary wrench.

The handle is 8 inches long. The

tool is capable of all kinds of work up to its capacity.

Price, each.....(TANSY) \$3.50

Packed one in a box, $8\frac{1}{4} \times 6\frac{1}{4} \times 2\frac{1}{2}$ inches.

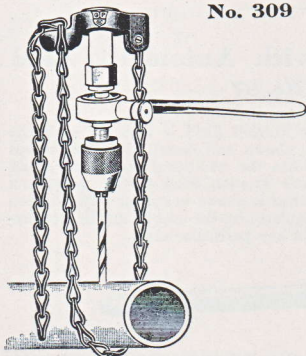
Weight, 2 pounds.

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88

Chain Attachment for Ratchet Drills

No. 309



This little Attachment acts as a clamp where it is possible to get a chain about the work, and in using Ratchet Drills will be a most ingenious and satisfactory device. It is equipped with 4 feet of heavy steel Chain. When used in connection with the No. 99 Ratchet Drill, shown above, it gives a very satisfactory automatic feed.

Price, each.....(TAPSTER) \$1.00

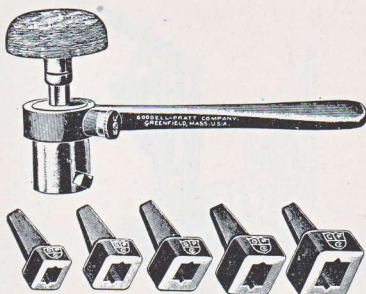
Packed one in a box, $5\frac{1}{4} \times 4\frac{1}{4} \times 1\frac{3}{4}$ inches.

Weight, each, $1\frac{1}{4}$ pounds.

Universal Ratchet Handle

No. 107

With Five Wrench Sockets for Screws and Nuts



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This tool has an Iron Handle 8 inches long, and a Shifter operating the Ratchet mechanism, which can be set for either right or left hand work; it has a ball-bearing Lignum-vitæ Head; the Socket has a square taper hole provided with a set screw for fastening the different nut wrenches provided for use with it.

The Wrench Sockets have openings ranging from $\frac{9}{32}$ to $\frac{9}{16}$. They are made of malleable iron with polished faces. * For capacity, see table,

Socket Nos.	Set Screws	Sq. Head Cap Screws	Hex. Head Cap Screws	Sq. and Hex. Nuts	Lag Screws
1	$\frac{1}{4}$	—	—	—	—
2	$\frac{5}{16}$	—	—	—	—
3	$\frac{3}{8}$	$\frac{1}{4}$	—	—	$\frac{1}{4}$
4	$\frac{7}{16}$	$\frac{5}{16}$	$\frac{1}{4}$	—	—
5	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{5}{16}$ and $\frac{3}{8}$	$\frac{1}{4}$	$\frac{5}{16}$

Price, per set, complete as shown. (FANCY) \$2.50

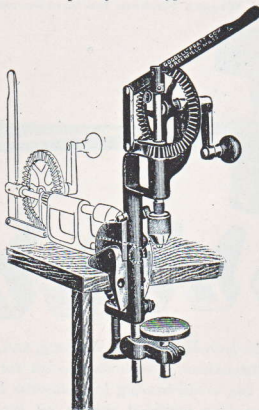
Packed one set in a box, $8\frac{1}{2} \times 4\frac{3}{4} \times 2\frac{1}{2}$ inches.

Weight, each, $2\frac{1}{2}$ pounds.

Universal Bench Drill

No. 145

Capacity 0 to $\frac{5}{32}$ inch



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This Universal Bench Drill embodies many unique features seldom found in hand tools of any description, and we believe never before employed in a small drilling machine. It can be used in an upright or horizontal position, as illustrated in the cut, or at any angle between.

The many small features, which can hardly be enumerated in a brief description, can only be fully understood and appreciated by having the machine in actual use.

It is 12 inches high over all; has Cut Gears, Steel Feed Screw, Adjustable Table. It is furnished complete with a three-jawed Chuck, capacity 0 to $\frac{5}{32}$ inch; and eight Fluted Drills, varying from $\frac{1}{16}$ to $\frac{1}{4}$ inch. It will drill to the center of a 2-inch circle when in vertical position.

Price, each (WARRANT) \$6.00

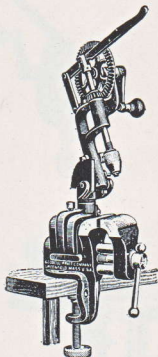
Packed one in a box, $10\frac{1}{4} \times 5\frac{3}{8} \times 3\frac{1}{4}$ inches.

Gross weight, $3\frac{1}{2}$ pounds.

Universal Bench Drill and Vise

No. 146

Capacity 0 to $\frac{5}{32}$ inch



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This is a combination of our Universal Bench Drill No. 145 and our 2-inch Bench Vise No. 161. As will be seen from the illustration the Drill Head is mounted upon the Vise with the Chuck directly above the Jaws when in a vertical position.

This Drill, like the No. 145, may be set to drill at any angle between vertical and horizontal and will be found a very useful contrivance.

It has Cut Gears; Lever Feed; Steel Feed Screw; and a Three-jawed Steel Chuck, capacity 0 to $\frac{5}{32}$ inch.

Price, each..... (WARRIOR) \$7.00

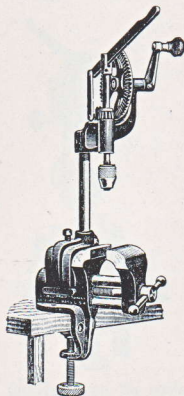
Packed one in a box, $10\frac{1}{2}$ x $6\frac{1}{2}$ x $4\frac{3}{8}$ inches.

Gross weight, 7 pounds.

Bench Drill and Vice

No. 147

Capacity 0 to $\frac{5}{32}$ inch



Height above Table, $12\frac{1}{2}$ inches

This machine offers in combination a Drill of small capacity with our No. 161 Vice, which has 2-inch Jaws. This tool has Lever Feed, Cut Gears, and is equipped with a three-jawed Chuck. capacity 0 to $\frac{5}{32}$ inch.

The Drilling Machine may be easily and quickly dismantled from the Vice when not in use. The spindle has a travel of $1\frac{7}{8}$ inches, and the point of the Drill is 2 inches from the upright Shaft.

Price, each.....(WASP) \$5.00

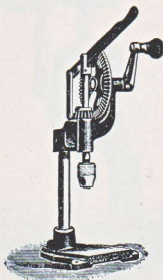
Packed one in a box, $6\frac{1}{2} \times 4\frac{3}{8} \times 1\frac{1}{2}$ inches.

Gross weight, $6\frac{1}{2}$ pounds.

Bench Drill

No. 148

Capacity 0 to $\frac{5}{32}$ inch



Height above Table, 12 inches

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This is a small lever feed Bench Drill, well designed and well made. The gears are turned and cut, and the table is milled. It is furnished complete with a three-jawed Steel Chuck, capacity 0 to $\frac{5}{32}$ inch.

The Table has a working surface of $3 \times 3\frac{1}{2}$ inches; the Spindle has a travel of $1\frac{7}{8}$ inches; distance from point of Drill to upright Shaft, 2 inches. It is attractively finished and will meet the demand for a Drill for exceptionally small work. Furnished with eight Drill Points varying from $\frac{1}{16}$ to $\frac{1}{8}$ inch.

Price, each.....(WASTER) \$4.00

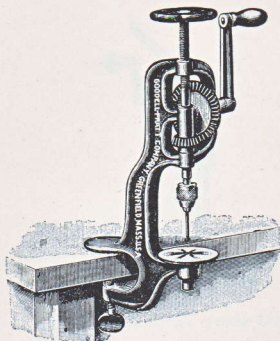
Packed one in a box, $10\frac{1}{2} \times 6\frac{1}{2} \times 4\frac{3}{8}$ inches.

Gross weight, $4\frac{1}{2}$ pounds.

Bench Drill

No. 8

Capacity 0 to $\frac{1}{4}$ inch



Height above Table, 13 inches

FRAME.—Solid Cast Iron, designed to give the maximum of strength with the lightest weight consistent.

GEARS.—Cut from solid blanks and run smoothly.

FEED SCREW.—Steel, topped with Iron Feed Wheel.

TABLE.—Adjustable as to height, top turned and polished.

CHUCK.—Three-jawed, capacity 0 to $\frac{1}{4}$ inch. It is constructed entirely of steel, with hardened Jaws.

This is a thoroughly well made and moderate priced Drill and is finished in an attractive manner with machine enamel.

Eight Drill Points, varying from $\frac{1}{16}$ to $\frac{11}{16}$ inch, furnished with each machine.

Price, each (LACKEY) \$5.00

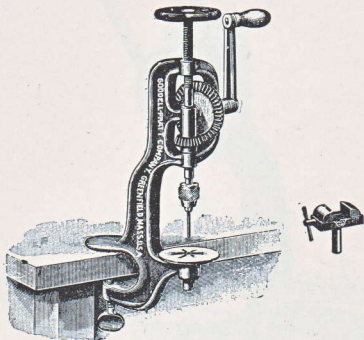
Packed one in a box, $16\frac{1}{2}$ x 10 x $6\frac{1}{2}$ inches.

Shipping weight, 11 pounds.

Bench Drill

No. 8 $\frac{1}{2}$

Capacity 0 to $\frac{1}{4}$ inch



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95

This machine is identical with the No. 8, shown and described on the preceding page, except that it has the additional equipment of a Special Vise, which can be used in place of the table for holding the work.

The Jaws open $1\frac{2}{16}$ inches, and operate on a right-hand and left-hand screw.

Price of Machine and Vise, complete, each.....(LAVKEY) \$6.50

Packed one in a box, $16\frac{1}{2}$ x 10 x $6\frac{1}{2}$ inches.

Shipping weight, 13 pounds.

Price of Separate Vises, each.....(AUKEY) 1.50

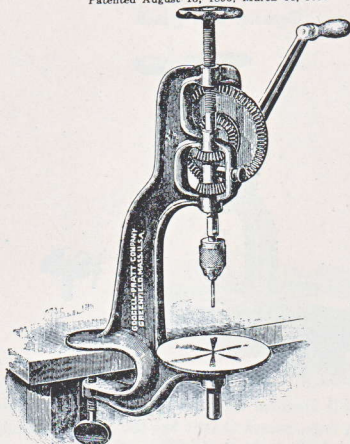
Weight of Vise, $1\frac{1}{2}$ pounds.

Bench Drill

No. 9

Capacity 0 to $\frac{3}{8}$ inch

Patented August 13, 1895, March 31, 1896



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Height above Table, 18 inches

FRAME.—Solid Cast Iron, designed to give the maximum of strength with the lightest weight consistent.

GEARS.—Cut from solid blanks and run smoothly.

SPEEDS.—Two, changed by throwing cam attached to shifter knob.

FEED SCREW.—Steel, topped with iron Feed Wheel.

TABLE.—Adjustable as to height, top turned and polished.

CHUCK.—Three-jawed, capacity 0 to $\frac{3}{8}$ inch. It is constructed entirely of steel with hardened Jaws.

A practical and durable tool, finished in an attractive manner. Extreme distance between Chuck and Table, $4\frac{1}{2}$ inches.

Eight Drill Points, varying from $\frac{1}{16}$ to $\frac{1}{4}$ inch, furnished with each machine.

Price, each.....(LABUMO) \$8.00

Packed one in a box, $20\frac{3}{4} \times 12 \times 6\frac{1}{4}$ inches.

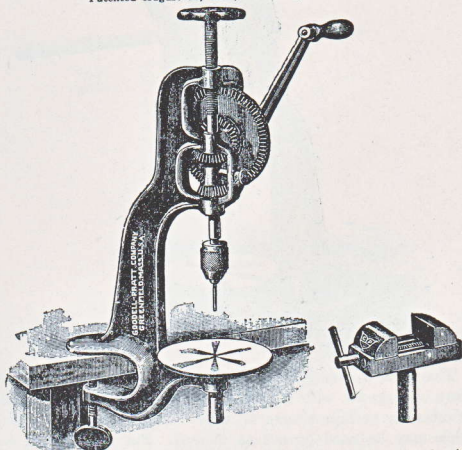
Shipping weight, 18 pounds.

Bench Drill

No. 9 $\frac{1}{2}$

Capacity 0 to $\frac{3}{8}$ inch

Patented August 13, 1895; March 31, 1896



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This machine is identical with the No. 9, but is furnished with a Special Vise, which can be used in place of the table for holding the work.

The Jaws open 2 inches and operate on a right-hand and left-hand screw.

Price of Machine and Vise, complete, each.....(LABMER) \$10.00

Packed one in a box, 20 $\frac{3}{4}$ x 12 x 6 $\frac{1}{4}$ inches.

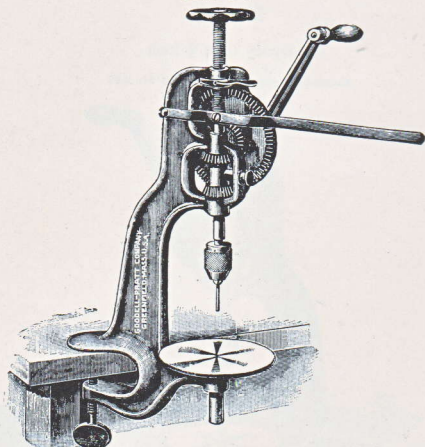
Shipping weight, 22 pounds.

Price of Separate Vises.....(LACKMUS) 2.00

Weight of Vise, 3 $\frac{3}{4}$ pounds.

Bench Drill

No. 90



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98

This Drill is exactly the same in every particular as the No. 9, shown on page 96, with the addition of a Lever Feed, which is very desirable on certain classes of work. It also has a Screw Feed, which may be used or not as desired. For dimensions, see the description of No. 9 Drill.

Price.....(LANDAU) \$10.00

Bench Drill

No. 90 $\frac{1}{2}$

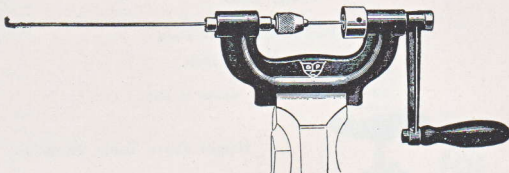
This is the same as the No. 90 described above, with the additional equipment of a Vise opening 2 inches, the same as is furnished with our No. 9 $\frac{1}{2}$ Drill.



Price.....(LANDING) \$12.00

Wire Threader

No. 50



This little device will be found very convenient for cutting threads on the end of short or long wire rods. It can be easily held in any vise; the collet for holding the dies is attached to the crank spindle. The Chuck for holding the wire is a three-jawed one, capacity 0 to $\frac{1}{2}$ inch, and will hold the work in alignment; it is attached to a hollow spindle, and slides back and forth in a splined groove; has malleable iron crank, with polished hard-wood handle. The frame is finished in japan, and all steel parts are polished. The collet is arranged for holding dies $\frac{1}{8}$ inch outside diameter; any round die answering this description can be used in the machine. We can furnish collets for dies, $\frac{1}{4}$ inch outside diameter, when specially ordered, without extra charge.

Price, each, without dies.....(PASTILE) \$2.50

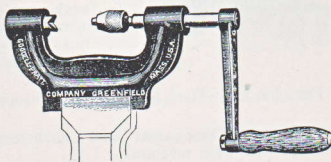
Weight, $3\frac{1}{2}$ pounds.

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99

Vise Drilling Attachment

No. 51



By simplifying the device shown at the top of the page, rearranging the Chuck on the opposite end, putting a V center in the tail stock, we have converted it into a little Vise Drilling Attachment, with a Chuck capacity from 0 to $\frac{1}{2}$ inch, making a very useful article at a very small cost.

Price, each.....(THEME) \$2.00

Packed one set in a box.

Weight, $3\frac{1}{2}$ pounds.

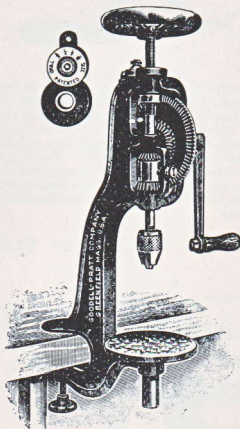
Bench Drill

No. 490

With Patent Automatic Feed

Capacity 0 to $\frac{3}{8}$ inch

Patented March 31, 1896; October 25, 1910



Height above Table, 18 inches.

GEARS.—Cut from solid blanks.

SPEEDS.—Two, instantly changed by turning shifter knob.

TABLE.—Adjustable as to height.

AUTOMATIC FEED.—An Intermittent Friction Feed controlled by nut on top of frame which may be set upon the dial to regulate the proper pressure for the size of drill in use. Does not operate until the point of Drill actually comes in contact with the work. Reversing the handle instantly releases the feed and runs the feed screw back to its original position.

FEED SCREW.—Steel, lathe turned and topped by Balance Wheel.

CHUCK.—A Three-jawed Steel Chuck, capacity 0 to $\frac{3}{8}$ inch, is furnished with each machine.

Eight Drill Points, varying from $\frac{1}{16}$ to $\frac{1}{8}$ inch, furnished with each machine.

Price, each..... (LACQUER) \$10.00

Packed one in a box, $20\frac{3}{4}$ x 12 x $6\frac{1}{4}$ inches.

Shipping weight, 21 pounds.

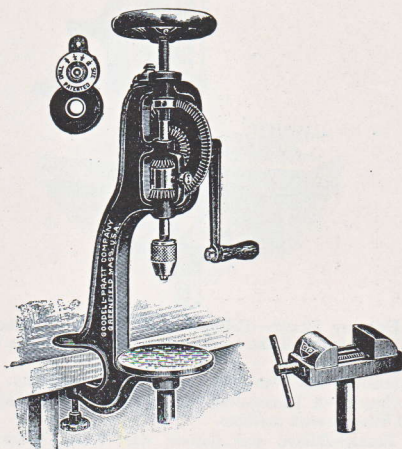
Bench Drill

No. 490 $\frac{1}{2}$

With Patent Automatic Feed

Capacity 0 to $\frac{3}{8}$ inch

Patented March 31, 1896: October 25, 1910



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101

This machine is identical with the No. 490 described on the preceding page, but is furnished in addition with a Special Vise, which can be used in place of the table for holding the work.

The Jaws of the Vise open 2 inches and operate on a right and left hand screw.

Price of Machine and Vise, complete.....(LAMPOON) \$12.00

Packed one in a box, 20 $\frac{3}{4}$ x 12 x 6 $\frac{1}{4}$ inches.

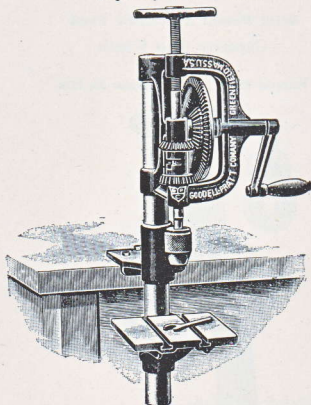
Shipping weight, 25 pounds.

Price of Separate Vises.....(LAPEL) 2.00

Bench Drill

No. 10

Capacity 0 to $\frac{1}{2}$ inch



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102

UPRIGHT SHAFT.—Polished Steel Tube, $1\frac{1}{2}$ inches diameter, 24 inches long; all the working parts of the machine are clamped to it.

GEARS.—Cut from solid blanks and run smoothly.

CHUCK.—A Three-jawed Chuck, capacity 0 to $\frac{1}{2}$ inch, furnished and fitted to each machine.

TABLE.—Milled and slotted; size, $6 \times 6\frac{1}{2}$ inches; adjustable up and down, or right and left, or can be entirely removed, and work blocked up from the floor, if desired.

SPEEDS.—Two, changed by throwing cam attached to shifter knob.

It is a thoroughly well made and practical machine in every sense of the word, and excessive weight has been obviated by using a tubular shaft.

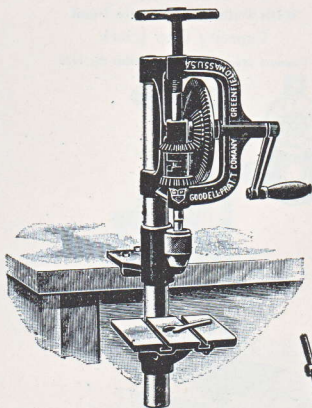
Price, complete with Chuck (LATEST) \$15.00

Packed one in a box, $26 \times 11 \times 10$ inches.

Shipping weight, 39 pounds.

Bench Drill

No. 10 $\frac{1}{2}$



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This machine is in every way identical with the No. 10; it is, however, equipped with the following extras, as shown in the cut:

1 Special Vise, with Jaws opening 2 inches, and operated on a right-hand and left-hand screw.

1 Plain Center.

1 Cup Center.

1 V. Center.



These extra attachments will be found very useful in doing a variety of special work.

Price, complete with Attachments.....(LADRULE) \$18.00

Packed one in a box, 26 x 11 x 10 inches.

Shipping weight, 43 pounds.

Price of Separate Vises, each.....(LUTER) 2.00

Price of Extra Centers, per set.....(LUSTER) 1.00.

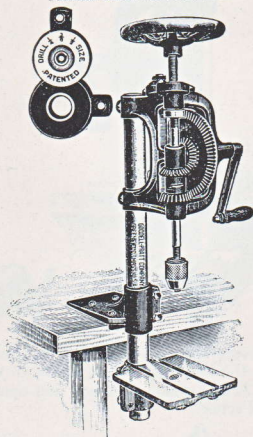
Bench Drill

No. 491

With Patent Automatic Feed

Capacity 0 to $\frac{1}{2}$ inch

Patented March 31, 1896; October 25, 1910



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This machine is identical in every respect with the No. 10, a detailed description of which is given on a previous page, with the exception that this machine is equipped with our patent Automatic Intermittent Friction Feed.

This new and very effective Feed is controlled by a nut on top of the frame which may be set on the dial to regulate the proper pressure for the size of Drill which is to be used. The Feed does not operate until the point of the Drill actually comes in contact with the work. Reversing the handle instantly releases the Feed and runs the feed screw back to its original position.

Great care should be exercised when this machine is used with a Drill under $\frac{1}{8}$ inch in size.

Price, each (LARGO) \$20.00

Packed one in a box, 26 x 11 x 10 inches.
Shipping weight, 39 pounds.

Bench Drill

No. 491 $\frac{1}{2}$

With Patent Automatic Feed

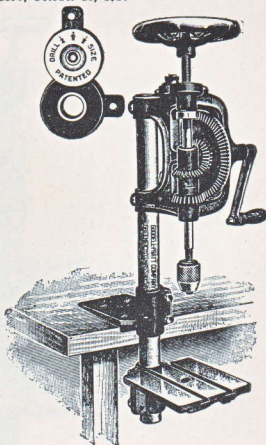
Capacity 0 to $\frac{1}{2}$ inch

Patented March 31, 1896; October 25, 1910

This machine is in every way identical with the No. 491 shown on the opposite page, but has the additional equipment of a Special Vise with Jaws opening 2 inches and operating on a right and left hand screw, and a set of three Centers, as illustrated.

This Vise engages with the grooves in the Table, which prevent its turning when the work is being drilled.

Great care should be exercised when this machine is used with a Drill under $\frac{1}{8}$ inch in size.



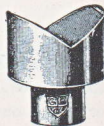
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1 Plain Center.

1 Cup Center.

1 V Center.

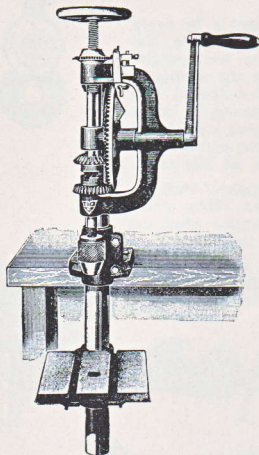


Price of Machine and Vise, complete.....	(LANKY)	\$23.00
Price of Separate Vises, each.....	(LASSO)	2.00
Price of Centers, per set.....	(LUSTER)	1.00

Packed one in a box, 26 x 11 x 10 inches,
Shipping weight, 43 pounds.

Bench Drill

No. 11



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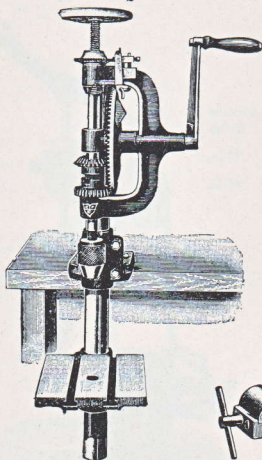
This machine is in every way identical with the No. 10; it has the addition, however, of an Automatic Feed, which can be used or thrown out at the will of the operator.

Price, each..... (LAXER) \$18.00

Packed one in a box, 26 x 11 x 10 inches.
Shipping weight, 39 pounds.

Bench Drill

No. 11 $\frac{1}{2}$



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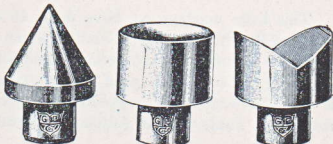
This machine is in every way identical with the No. 11, with the addition of the following extra equipment:

1 Special Vise, with Jaws opening 2 inches, and operated on a right-hand and left-hand screw.

1 Plain Center.

1 Cup Center.

1 V Center.



These extra attachments will be found very useful for doing a variety of special work.

Price, complete with Attachments.....(LAXINE) \$20.00

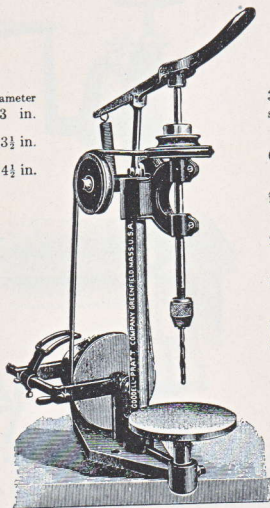
Packed one in a box, 26 x 11 x 10 inches.

Shipping weight, 43 pounds.

Power Bench Drill

No. 12

Diameter
Loose pulley 3 in.
1st step 3½ in.
2d step 4½ in.



Spindle movement,
3¼ inches, or can be
set for any less length.

Drills to center of
6¼-inch circle.

Table Diameter, 4⅞
inches.

Table adjustment,
2¼ inches.

Total height, 24
inches.

Extreme distance
from Chuck to table,
8 inches.

No belt furnished.

This little machine we have made to meet the demands for a sensitive Bench Drill of good quality, which can be sold at a moderate price; we believe we have accomplished all that could be asked of us. The cut conveys a good idea of its general characteristics; it is equipped with a Three-jawed Chuck, capacity 0 to ¼ inch, an Adjustable Table, and an Adjustable Spindle.

Price, each (LAXILL) \$15.00

Each machine packed in a wooden box, 20½ x 17 x 8 inches,
Shipping weight, 30 pounds.

Foot Power Drilling Machine

No. 79

Fitted with Three-Jawed Chuck, capacity
0 to $\frac{1}{4}$ inch

Chuck Patented August 13, 1895

The general features of this machine will be well understood on a careful scrutiny of the accompanying illustration. The model we are now offering is a great improvement over the original machine we first put out under this number. It has a Double Treadle, operated through a Geared Drive, making it possible to use the machine either standing up or sitting down, and with either the right, the left, or both feet, as the operator may find convenient. It has an Adjustable Table and an Adjustable Spindle, a small Balance Wheel, and is in every sense of the word a Sensitive High Speed Foot Power Drilling Machine. The Idler and Spindle Pulleys have two Steps, making Two Speeds possible. General dimensions as follows:

Height, 54 inches.

Distance Floor to Table, 36 inches.

Distance Chuck to Table, 7 inches.

Diameter of Table, $5\frac{1}{4}$ inches.

Diameter of Large Pulley, 12 inches.

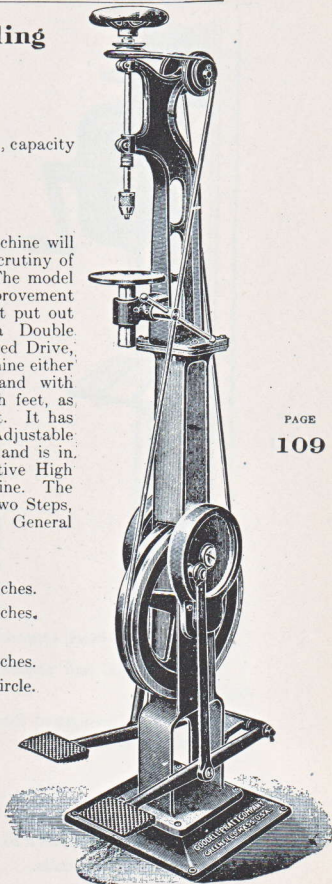
Drills to the center of 6-inch circle.

Attractively painted with machine enamel.

Belt furnished.

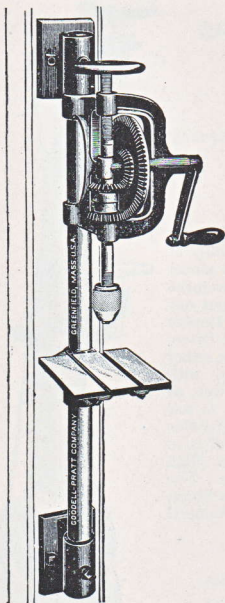
Price, each (LABOR) \$25.00

Gross weight, 135 pounds; net weight, $110\frac{1}{2}$ pounds.



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Wall Drilling Machine

No. 63

Capacity 0 to $\frac{1}{2}$ inch

Length of Shaft, 33 inches.

Diameter of Shaft, $1\frac{1}{2}$ inches.

Extreme distance, Table to Chuck, $11\frac{1}{2}$ inches.

GEARS.—Cut from solid blanks.

SPEEDS.—Two, instantly changed by turning shifter knob.

PLEASE NOTE.—The cut shows Iron Brackets fastened to plank. No plank included.

This machine is provided with two Iron Brackets, so arranged that it can be fastened to a post or to the wall, making a very convenient drilling machine without occupying space upon the bench.

FEED SCREW.—Steel, topped by an Iron Feed Wheel.

TABLE.—Milled and slotted, adjustable as to height and to right or left.

CHUCK.—A Three-jawed Steel Chuck, capacity 0 to $\frac{1}{2}$ inch, is furnished with each machine.

Price, each.....(LODER) \$16.00

Packed one in a box, 36 x 10 x 9 inches.

Gross weight, 50 pounds.

Wall Drilling Machine

No. 63 $\frac{1}{2}$

Capacity 0 to $\frac{1}{2}$ inch

This machine is in every way identical with the No. 63, as shown on the preceding page, with the addition of the following equipment:

1 Special Vise, with Jaws opening 2 inches, and operating on a right-hand and left-hand screw.

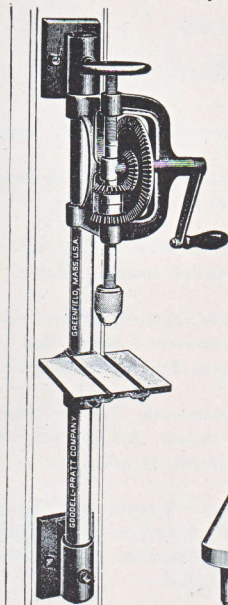
1 Plain Center.

1 Cup Center.

1 V Center.

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Cut shows Drill fastened to a plank. No plank furnished.

Price, each (LUBBER) \$19.00

Each machine packed in a box, 36 x 10 x 9 inches.

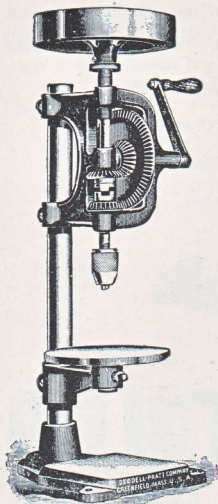
Gross weight, 51 pounds; net weight, 37 pounds.

Bench Drill

No. 72

Capacity 0 to $\frac{1}{2}$ inch

Height to top of Tube, $24\frac{1}{2}$ inches.



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GEARS.—Cut from solid blanks.

SPEEDS.—Two, changed by turning shifter knob.

BALANCE WHEEL.—Edge turned and polished; diameter, 7 inches.

ROUND TABLE.—Turned and polished; diameter, 7 inches. May be swung out of the way to either side.

RECTANGULAR TABLE.—Milled, 6 x 7 inches; extreme distance from Chuck, 11 inches.

CHUCK.—A strong Steel Chuck, capacity 0 to $\frac{1}{2}$ inch, with three hardened Jaws, is furnished with each machine.

Great care should be exercised when this machine is used with a Drill under $\frac{1}{8}$ inch in size.

Price, each.....(LITTER) \$18.00

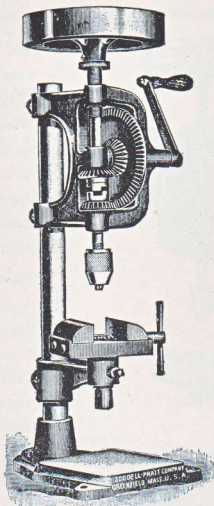
Each machine packed in a box, 28 x $13\frac{1}{2}$ x $11\frac{1}{2}$ inches.

Gross weight, 70 pounds; net weight, 50 pounds.

Bench Drill

No. 72 $\frac{1}{2}$

Capacity 0 to $\frac{1}{2}$ inch



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This machine differs in only one particular from the No. 72, shown and described on the preceding page. It has a Special Vise on the swinging arm in place of the Round Table; the Jaws of this Vise open 2 inches, and particular attention is called to the fact that the swinging arm to which Vise is attached can be thrown to either right or left when operator desires to use the plain table. Finish same as No. 72.

Great care should be exercised when this machine is used with a drill under $\frac{1}{8}$ inch in size.

Price, each.....(LABEL) \$20.00

Packed one in a box, 28 x 13 $\frac{1}{2}$ x 12 $\frac{1}{2}$ inches.

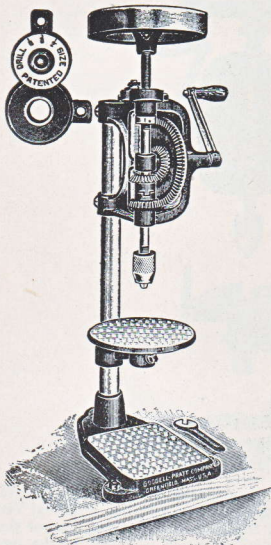
Gross weight, 70 pounds; net weight, 50 pounds.

Bench Drill

No. 492

Capacity 0 to $\frac{1}{2}$ inch

Patented March 31, 1896 October 25, 1910



This machine is identical in every respect with the No. 72, a detailed description of which is given on a previous page, with the exception that this machine is equipped with our patent Automatic Intermittent Friction Feed.

This new and very effective Feed is controlled by a nut on top of the frame which may be set on the dial to regulate the proper feed for the size of Drill which is to be used. The Feed does not operate until the point of the Drill actually comes in contact with the work. Reversing the handle instantly releases the Feed and runs the feed screw back to its original position.

Great care should be exercised when this machine is used with a Drill under $\frac{1}{8}$ inch in size.

Price, each.....(LEACH) \$21.00

Packed one in a box, 28 x 13 $\frac{1}{2}$ x 11 $\frac{1}{2}$ inches.

Gross weight, 70 pounds.

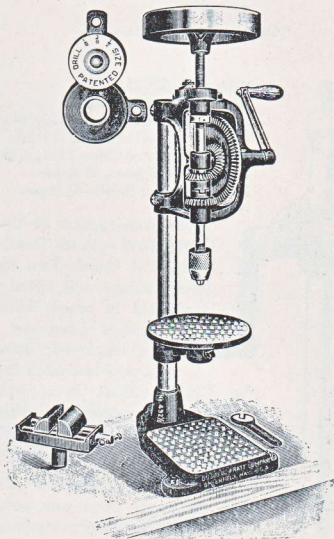
Bench Drill

No. 492 $\frac{1}{2}$

With Patent Automatic Feed

Capacity 0 to $\frac{1}{2}$ inch

Patented March 31, 1896; October 25, 1910



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This machine is exactly the same as the No. 492, but in addition is furnished with a Special Vise which may be used in the swinging arm in place of the Round Table.

The Jaws of this Vise open 2 inches, and operate on a right and left hand screw.

Great care should be exercised when this machine is used with a Drill under $\frac{1}{8}$ inch in size.

Price, each.....(LIBER) \$24.00

Packed one in a box, 28 x 13 $\frac{1}{2}$ x 12 $\frac{1}{2}$ inches.

Gross weight, 72 pounds.

Angular Clamp Drill

No. 74

Capacity 0 to $\frac{1}{2}$ inch

Chuck Patented August 13, 1895

Extreme height, 31 inches.
Length of Tube, 24 inches.
Distance from Chuck to Upright Shaft, 8 inches.
Diameter of Tubular Shaft, $1\frac{1}{2}$ inches.
Length of Screw in Clamp Plate, $4\frac{3}{4}$ inches.
Length of Feed Screw, $4\frac{1}{4}$ inches.
Length of Crank Handle, $6\frac{1}{2}$ inches.

The construction of this Angular Clamp Drill with its Tubular Upright Shaft, Cut Gears, Two Speeds with quick change, will open at once a large field in which Drills of this character have not heretofore been employed; particular emphasis is laid upon the fact that the Upright Shaft is a hollow tube, magnifying the power and minimizing the weight of the tool. Its general dimensions are noted in the specifications above.

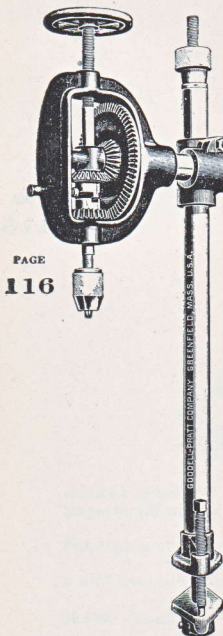
The finish of this tool is identical with that employed upon our other Drilling Machines. Iron parts in machine enameled black and red, steel parts polished.

Price, each (LATENT) \$18.00

Gross weight, 50 pounds.

Net weight, 35 pounds.

Packed one in a wooden case,
 $35\frac{1}{2} \times 16\frac{1}{2} \times 7\frac{1}{4}$ inches.



Angular Clamp Drill

No. 76

This tool is the companion of the No. 74, shown and described on the preceding page, but is much larger and heavier. It has a Tubular Shaft 2 inches in diameter, 30 inches long; it has all Cut Gears, the Inside Pinions being of steel. It has Ball Bearings to take up the end thrust of the Spindle, and a powerful Crank Shaft for operating the machine. The Spindle is fitted for holding $\frac{1}{2}$ -inch round shank Drills, and is provided with the additional equipment of a No. 16 Drill Chuck with $\frac{1}{2}$ -inch shank for holding smaller sizes. It is possible with this machine to drill holes 1 inch in diameter with comparative ease.

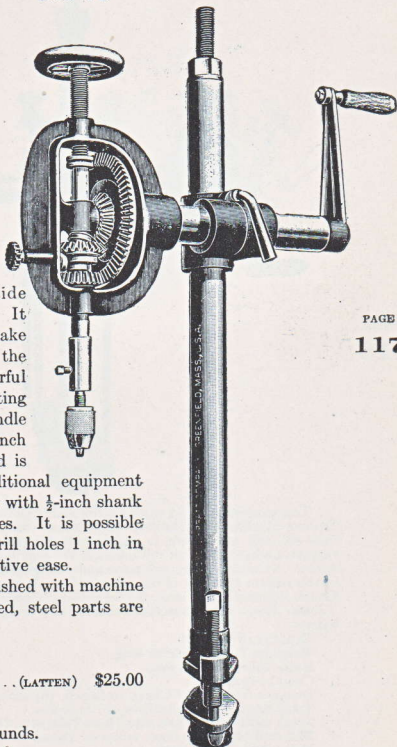
The iron parts are finished with machine enamel in black and red, steel parts are polished.

Price, each.....(LATTEN) \$25.00

Gross weight, 85 pounds.

Net weight, 65 pounds.

Packed one in a box, $42\frac{1}{2}$ x 23 x $8\frac{1}{2}$ inches.

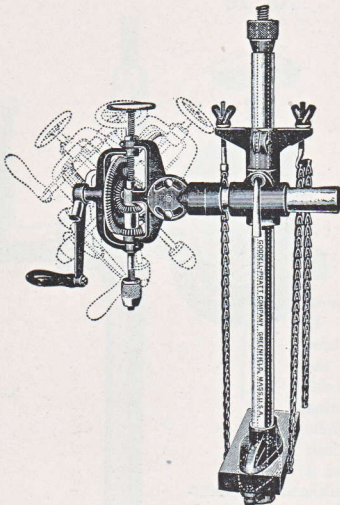


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Universal Clamp Drill

No. 112



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This machine is, as its name implies and as the cut shows, a Universal Clamp Drilling Machine with Ratchet Attachment. After having designed a machine that will drill, we believe, in any conceivable position, we have added to it a ratchet mechanism which will admit of the handle being turned in any possible corner. It is thoroughly well made and well finished and will compare favorably in this respect with any of our other styles. It is equipped with a three-jawed Chuck, capacity 0 to $\frac{3}{8}$ inch, and furnished complete with Chain as shown. The Tubular Shaft eliminates much unnecessary weight. Detailed description as follows:

Capacity, 0 to $\frac{3}{8}$ inch.

Standard Tube, 24 inches long.

Head Tube, 7 inches long.

Chain, 5 feet long.

Distance from end of Chuck to Bench, $16\frac{1}{4}$ inches.

Total length of machine over all, 34 inches.

Total width of machine with Head Tube out, 23 inches.

Will drill $11\frac{1}{2}$ inches from center of Tube.

Net weight, $33\frac{1}{2}$ pounds.

Price, each.....(LACTIC) \$20.00

Track Drilling Machine

No. 113

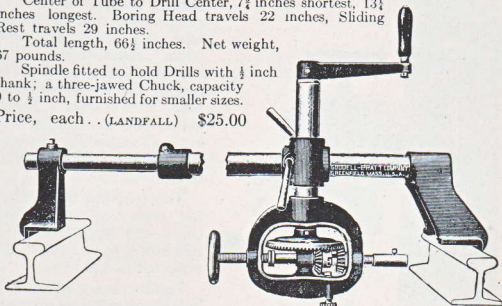
It is fitted with a Tubular Shaft, minimizing the weight. It is a thoroughly well made, nicely finished machine. Dimensions are as follows:

Center of Tube to Drill Center, $7\frac{1}{4}$ inches shortest, $13\frac{1}{2}$ inches longest. Boring Head travels 22 inches, Sliding Rest travels 29 inches.

Total length, $66\frac{1}{2}$ inches. Net weight, 67 pounds.

Spindle fitted to hold Drills with $\frac{1}{2}$ inch shank; a three-jawed Chuck, capacity 0 to $\frac{1}{2}$ inch, furnished for smaller sizes.

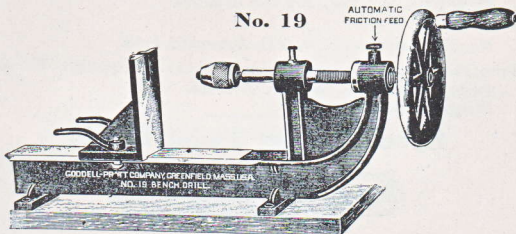
Price, each. (LANDFALL) \$25.00



Horizontal Bench Drill

No. 19

AUTOMATIC
FRICTION FEED



The Bed and Tail Stock are milled, both on the bearing surface and face, Clamping Nuts are provided with Handles. It has a steel Feed Screw and Spindle and is provided with an Automatic Friction Feed, regulated by turning the Thumb Screw shown in cut. It is fitted with a three-jawed Chuck, capacity 0 to $\frac{1}{2}$ inch.

The dimensions are as follows:

Total length of Bed, 21 inches.

Length of Milled Bed, $12\frac{1}{2}$ inches.

Spindle runs 4 inches.

Total length of Machine, $25\frac{1}{2}$ inches.

Drills to the center of a $7\frac{1}{4}$ -inch circle.

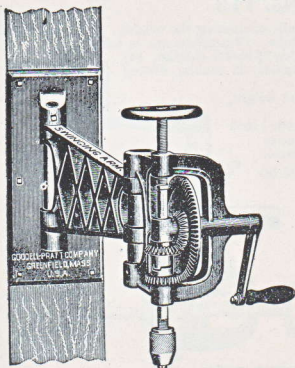
Extreme distance from Chuck to Tail

Stock, $7\frac{1}{4}$ inches.

Total height from Bench to top of Balance Wheel, 10 inches.

Price, each. (LEAR) \$8.00

Bench Drill No. 18



This deep throat Bench Drill is constructed by attaching a swinging arm, $7\frac{3}{8}$ inches wide and 24 inches long, to a heavy rigid wall plate. Fitted to the end of this arm is the head of our regular No. 10 Bench Drill, with Cut Gears; Three-jawed Chuck, capacity 0 to $\frac{1}{2}$ inch; Two Speeds, changed by throwing a cam attached to shifting rod.

This machine will drill to the center of a 54-inch circle, and when not in use will swing back against the wall, out of the way.

Can be used above a wide bench to greatest advantage.

Price, each (LEAD) \$17.00

Packed one in a box, 26 x 11 x 10 inches.

Weight, 67 pounds.

No. 18A, same as above, with Automatic Feed.

Price, each (LEADER) \$20.00

Packed one in a box, 26 x 11 x 10 inches.

Weight, 67 pounds.

Special Short Twist Drills



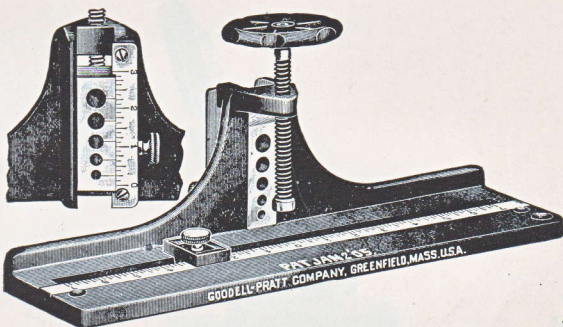
We can furnish Special Short Twist Drills in sets, particularly adapted for use in our Bench Drills, where Drills of regular length take up too much room.

They are made in the uniform length of $2\frac{1}{4}$ inches.

SET	No.	Fitting	No.	Drill.	1 each,	$\frac{1}{16}$, $\frac{3}{32}$, $\frac{1}{8}$,	Per Set
						$\frac{5}{32}$, $\frac{3}{16}$, $\frac{7}{32}$, $\frac{1}{4}$ inch	(LADLE) \$1.00
[SET]	No. 090.	Fitting	No. 9	Drill.	1 each,	$\frac{1}{16}$, $\frac{3}{32}$, $\frac{1}{8}$	(LARGER) 2.00
						$\frac{5}{32}$, $\frac{3}{16}$, $\frac{7}{32}$, $\frac{1}{4}$, $\frac{9}{32}$, $\frac{5}{16}$, $\frac{11}{32}$, $\frac{3}{8}$ inch	

Dowelling Machine

No. 114



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This machine for the accurate boring of dowelling holes will be found invaluable. An excellent idea is conveyed by the cut, in fact both the front and rear views are given, showing the graduation by which the height of the Gauge Block, provided with holes $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, and $\frac{1}{2}$ inches, can be readily determined and set at any desired point. The face of the machine is provided with a Graduated Strip running 7 inches in each direction from the center, making possible practically perfect location for dowel holes. All the Graduated Strips are ENGINE DIVIDED, the whole tool is well made and attractively finished.

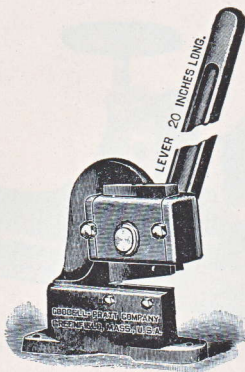
Price, each.....(OPAL) \$6.00

Packed one in a wooden box, 17 x 7 $\frac{1}{4}$ x 6 $\frac{1}{2}$ inches.

Gross weight, 13 $\frac{1}{2}$ pounds. Net weight, 10 $\frac{1}{2}$ pounds.

Bench Shear

No. 150



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The construction of this Shear is of a character that cannot fail to commend itself to any one having use for such a tool. Sheets of great width can be readily cut, the shape of the casting being designed particularly with this end in view. It is provided with a long Lever 20 inches in length, and has Blades 4 inches long, opening $\frac{9}{16}$ inch at the front. No work larger than $\frac{3}{16}$ in either round or flat should be attempted; work up to these dimensions is within the capacity of the machine.

The iron parts are attractively finished in machine enamel, the steel parts are polished bright.

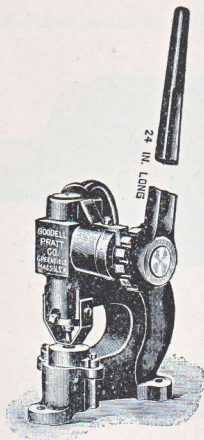
Price, each.....	(TEETER)	\$20.00
Extra Blades, per set.....		4.00

Each machine packed in a box, $23\frac{3}{4}$ x 11 x 6 inches.

Gross weight, 46 pounds. Net weight, 31 pounds.

Bench Punching Machine

No. 140



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This Bench Punch is strong enough and heavy enough to punch $\frac{3}{8}$ -inch hole in soft steel or iron, $\frac{1}{8}$ of an inch thick, 4 inches from edge. We do not recommend it for any work by which it would be subjected to a greater strain. It is furnished complete, as shown in cut, with one set of Dies for $\frac{3}{8}$ -inch round hole. It is of attractive design, well made and well finished. Dimensions as follows:

Length of Lever, 24 inches.

Capacity, in soft iron or steel it will punch holes $\frac{3}{8}$ inch in diameter in stock $\frac{1}{8}$ inch thick.

Depth of Throat, 4 inches.

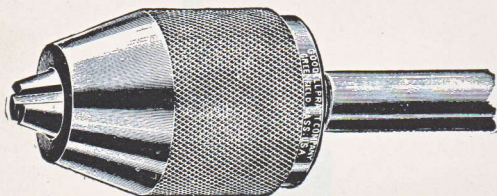
Price, each, with one set $\frac{3}{8}$ inch round dies. (DRIVE) \$20.00

Each machine packed in a box, 26 x 12 x 6 inches.

Gross weight, 75 pounds. Net weight, 58 pounds.

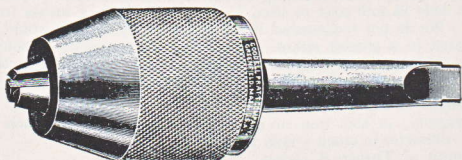
Extra Punches and Dies for round holes only, per set, \$3.00.

Cut showing No. 16 Chuck, with $\frac{1}{2}$ -inch Shank



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Cut showing No. 15 $\frac{1}{2}$ Chuck, with Morse Taper Shank



Goodell-Pratt Drill Chucks

Patented August 13, 1895

Realizing the great demand for a Drill Chuck of moderate cost and good quality, we take pleasure in offering one we are confident will meet all requirements.

No Spanner Wrench is required with this Chuck. It can be tightened or loosened easily without one. The shank or spindle is arranged to receive a stud which, as the shell is turned, forces the jaws forward and tightens the Chuck.

The three Hardened Steel Jaws are held apart by separating springs which draw the jaws back as the Chuck is loosened.

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Well finished, strong, accurate.

Fitted with $\frac{1}{2}$ -inch or $\frac{3}{4}$ -inch shanks for Angular or Blacksmith Drills, or with Morse Taper Shanks, as desired.

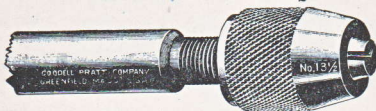
		Straight Shanks	Morse Taper
		$\frac{1}{2}$ inch or $\frac{3}{4}$ inch	No. 1 or No. 2
No. 14	to $\frac{5}{32}$ inch, each.....	(SANE) \$1.50	\$2.00
No. 15	to $\frac{1}{4}$ inch, each.....	(SALE) 2.00	2.50
No. 15 $\frac{1}{2}$	to $\frac{3}{8}$ inch, each.....	(SEAR) 3.00	3.50
No. 16	to $\frac{1}{2}$ inch, each.....	(SCAR) 4.00	4.50

Each Chuck packed in a box.

~~108~~ Half-inch Shanks sent unless otherwise specified.

Drill Chuck

No. 13 $\frac{1}{2}$



We have had a great many calls for a Chuck of this character, with extremely small capacity, and built particularly for a class of small work.

We have sold them in very large quantities for use upon small Multiple Spindle Drilling Machines and for special and regular Button Machinery.

They will be found extremely serviceable, and not easy to get out of order. They have a capacity to $\frac{1}{16}$ inch, and are furnished, unless otherwise specified, complete with a $\frac{1}{2}$ -inch shank or spindle.

Price, each (SLARNE) \$1.50

Packed one in a box, $4\frac{1}{4} \times 1\frac{1}{4} \times 1\frac{1}{4}$ inches.

We shall be pleased to quote, on application, special prices on these Chucks when ordered in large quantities, and without spindles.

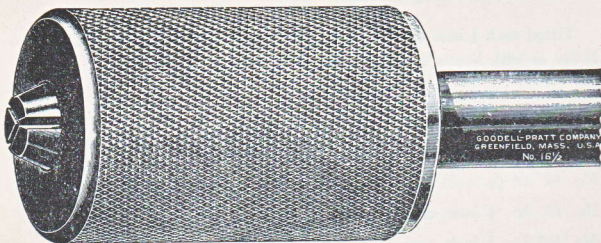
Drill Chuck

No. 16 $\frac{1}{2}$

Capacity 0 to $\frac{3}{4}$ inch

Patented August 13, 1895

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126



This Chuck is the same in character and form of construction as those shown and described on pages 124 and 125.

It is made much larger and heavier, and will hold without difficulty Drills up to $\frac{3}{4}$ inch; this will be found an excellent tool for holding Drills up to its extreme capacity.

Price, each, with 1-inch Straight Shank (SCACE) \$6.00

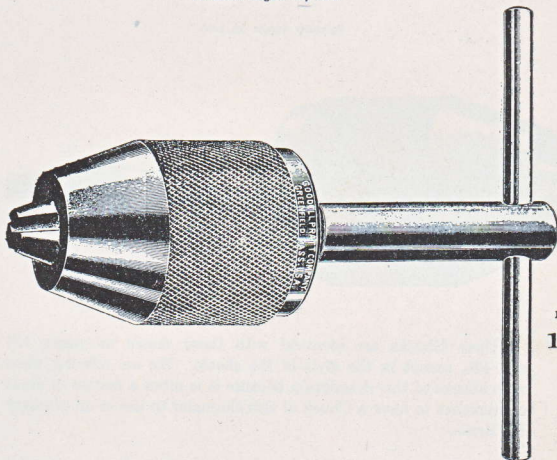
Price, each, with No. 3 Morse Taper Shank (SAHIB) 7.00

Packed one in a box, $10\frac{1}{4} \times 2\frac{1}{4} \times 2\frac{1}{4}$ inches.

Weight, $4\frac{1}{2}$ pounds.

Chucks with Cross Handles

Patented August 13, 1895



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127

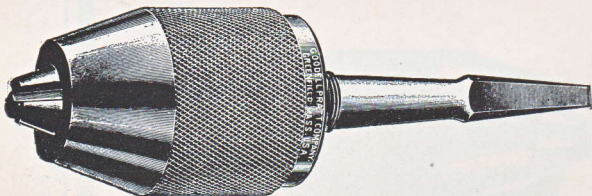
These Chucks are identical with those shown on pages 124 and 125, except in the style of the shank. This idea of attaching a Cross Handle to the shank is not a new one, but one which has been much in vogue in the assembling of small and large machinery where Reamers and Taps have often to be used for cleaning holes and removing burrs; they are made in four sizes, as listed below:

No. 14C	to $\frac{5}{32}$ inch, each.....	(SANEC)	\$2.00
No. 15C	to $\frac{1}{4}$ inch, each.....	(SALEC)	2.50
No. 15½C	to $\frac{3}{8}$ inch, each.....	(SEARC)	3.50
No. 16C	to $\frac{1}{2}$ inch, each.....	(SCARC)	4.50

Each Chuck packed in a box.

Drill Chucks with Brace Shanks

Patented August 13, 1895



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128

These Chucks are identical with those shown on pages 124 and 125, except in the style of the shank. We are offering them with shanks of this description because it is often a matter of great convenience to have a Chuck of this character to use in an ordinary Bit Brace.

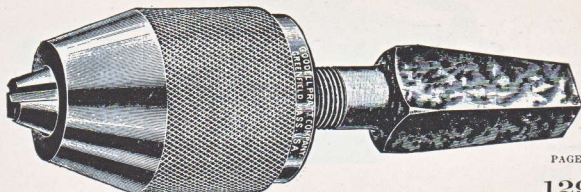
These shanks are milled on centers, keeping them in perfect alignment with the other parts of the tool, and insuring their running well, providing, of course, that the jaws in which they are held are equally accurate.

No. 14B to $\frac{5}{32}$ inch, each.....	(SANEB)	\$2.00
No. 15B to $\frac{1}{4}$ inch, each.....	(SALEB)	2.50
No. 15 $\frac{1}{2}$ B to $\frac{3}{8}$ inch, each.....	(SEARB)	3.50
No. 16B to $\frac{1}{2}$ inch, each.....	(SCARB)	4.50

Each Chuck packed in a box.

Drill Chucks with Taper Square Shanks

Fitting Ratchets No. 2 Shank.
Square Taper $\frac{3}{4} \times \frac{1}{2} \times 1\frac{3}{4}$ inches long



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129

These Chucks are identical with those shown on pages 124 and 125, except in the style of shank. We are furnishing them with shanks of this description as it will often be a matter of convenience in using Ratchet Drills to use Round Shank Twist Drills of the smaller sizes.

No. 14R	to $\frac{5}{32}$ inch, each.....	(SAPPER)	\$2.00
No. 15R	to $\frac{1}{4}$ inch, each.....	(SCALD)	2.50
No. 15 $\frac{1}{2}$ R	to $\frac{3}{8}$ inch, each.....	(SCALE)	3.50
No. 16R	to $\frac{1}{2}$ inch, each.....	(SCAMP)	4.50

Each Chuck packed in a box.

Left Hand Drill Chucks

Patented August 13, 1895



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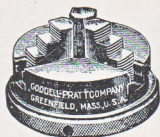
These Chucks are identical with those shown and described on pages 124 and 125, except that the spindles are made with *left-hand* threads and can be used upon machines running left-handed.

Fitted with $\frac{1}{2}$ -inch Shanks only.

No. 14L.H.	to $\frac{5}{8}$ inch.....	(ABFT)	\$1.50
No. 15L.H.	to $\frac{1}{4}$ inch.....	(ABACK)	2.00
No. 15 $\frac{1}{2}$ L.H.	to $\frac{3}{8}$ inch.....	(ABET)	3.00
No. 16L.H.	to $\frac{1}{2}$ inch.....	(ABASE)	4.00

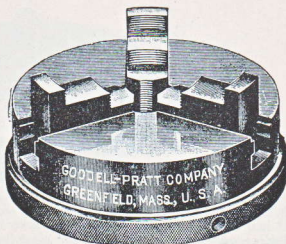
Each Chuck packed in a box.

Scroll Chucks



No. 180 $\frac{1}{2}$

Showing Inside Jaws



No. 182

Showing Outside Jaws

Tools of this character are too well known to require detailed description. We find users of our tools insisting that we supply them with small Scroll Chucks in 2, 3, and 4 inch sizes; we are therefore offering a line designed particularly with the view to eliminating, in so far as it is possible to do so, the weak points in other similar tools now on the market. We believe we have produced a Chuck strong and serviceable which can be sold at a moderate price.

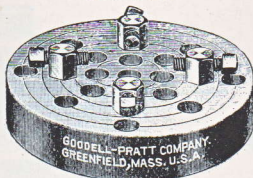
The Jaws are hardened, other steel parts are polished bright. No Face Plates are furnished. Jaws are not interchangeable, each set being fitted to its own Chuck.

No. 180	2 inches in diameter, outside jaws only.	(BABBLE)	\$5.00
	Size of hole through body, $\frac{1}{2}$ inch		
No. 180 $\frac{1}{2}$	2 inches in diameter, both outside and inside jaws.	(BABOON)	6.50
No. 181	3 inches in diameter, outside jaws only.	(BADGER)	6.00
	Size of hole through body, $\frac{1}{16}$ inch		
No. 181 $\frac{1}{2}$	3 inches in diameter, both outside and inside jaws.	(BAFFLE)	7.50
No. 182	4 inches in diameter, outside jaws only.	(BAILIFF)	7.00
	Size of hole through body, 1 inch		
No. 182 $\frac{1}{2}$	4 inches in diameter, both outside and inside jaws.	(BALANCE)	9.00

Each Chuck packed in a box.

Odd Jobs Chuck

No. 179



This Chuck is, as its name implies, suitable for a variety of work. Unique in its construction it will hold almost any shape within the range of its capacity. It can be used for outside or inside work by simply turning the studs about; the holes are so spaced that any size piece from $\frac{1}{8}$ inch to $3\frac{1}{4}$ inches in diameter can be firmly secured. The back is recessed for a 3-inch face plate, drilled and tapped for screws $\frac{1}{4}$ inch No. 20 thread; these screws are furnished with the Chuck. Its extreme diameter is $5\frac{1}{4}$ inches; it is 1 inch thick, has five rows of holes, and is so constructed that the bearing point comes $\frac{1}{8}$ inch from the face of the Chuck; the screws which act as the bearings are hardened and tempered, the studs fit accurately in their places, making a thoroughly practical and useful device and furnishing what is in reality a 5-inch Chuck at a remarkably low figure.

Price, each.....(YEAST) \$4.00

Packed one in a box, $5\frac{3}{4} \times 5\frac{3}{4} \times \frac{7}{8}$ inch.

Weight, $4\frac{7}{8}$ pounds.

Chuck for Square Shanks

No. 17

Patented March 31, 1896



This tool will be found useful for machines in which it is desired to use Drills or Bits with square shanks.

It is well made, nicely finished, strong, and accurate.

Fitted with $\frac{1}{2}$ -inch spindles.

Price, each.....(MARBLE) \$1.50

These can be fitted with $\frac{4}{16}$ -inch spindles, if desired.

Packed one in a box, $7\frac{1}{2} \times 1\frac{3}{4} \times 1\frac{1}{2}$ inches.

Weight, $1\frac{1}{4}$ pounds.

Bit Brace Extensions



These Brace Extensions are simple in their construction, being made of but two pieces, the shank part having a square taper hole swaged in one end and a loose sleeve with a milled opening through which the shank of the bit can be inserted; the loose sleeve runs on a fine thread, insuring a strong, positive grip. They are made in two sizes, as noted below, one size for $\frac{5}{8}$ -inch Bit and the other size for $\frac{3}{4}$ -inch Bit, and are furnished in various lengths, as listed. They are made entirely of steel, nicely polished, with knurling, as shown in cut.

To follow $\frac{5}{8}$ -inch Bits:

No. 450.	12 inch.....	(BALM)	\$1.50
No. 451.	15 inch.....	(BALD)	1.50
No. 452.	18 inch.....	(BANE)	1.50
No. 453.	21 inch.....	(BASTE)	1.50
No. 454.	24 inch.....	(BEAU)	1.75

To follow $\frac{3}{4}$ -inch Bits:

No. 530.	18 inch.....	(BIGHT)	1.75
No. 531.	24 inch.....	(BLAIN)	2.00

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Bit Brace Chucks with Long Shanks,

No. 207



These Chucks are the same in construction as those used upon our No. 07 Breast Drill. They are furnished with shanks of various lengths, as listed below:

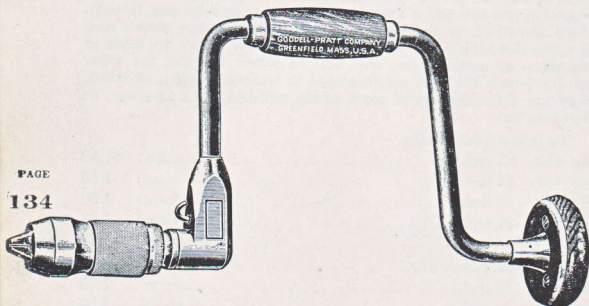
12 inch.....	(MACE)	\$1.25
15 inch.....	(MICE)	1.25
18 inch.....	(MECE)	1.25
20 inch.....	(MOCE)	1.25
24 inch.....	(MUCE)	1.25

Packed one in a box.

Goodell-Hay Ratchet Brace

Goodell Patent, December 27, 1892. Hay Patent, September 18, 1894

With Quick-Action Chuck



Forged Steel Sweep and Jaws, Malleable Iron Socket and Shell, Adjustable Cocobolo Handle and Cocobolo Head, Steel Clad. Full Polished and Nickel Plated.

Ball-Bearing Head.

This Brace is fitted with the Hay Patent Quick-Action Chuck, requiring only one half a turn to either tighten or loosen the same, no matter what the size of the bit shank may be.

All mechanics will appreciate the saving of time this feature will afford them.

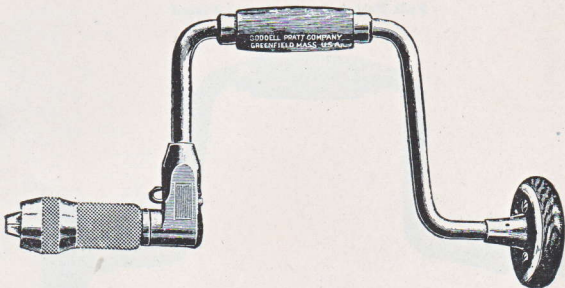
	Per Dozen
14-inch sweep.....(OVAL)	\$45.00
12-inch sweep.....(ORATE)	42.00
10-inch sweep.....(OCULT)	39.00
8-inch sweep.....(OSSIFY)	36.00

Packed one sixth dozen in a box.

Ratchet Braces

Patented December 27, 1892

Full Polished and Nickel Plated



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Forged Steel Sweep and Jaws, Malleable Iron Socket and Shell Adjustable Cocobolo Handle and Cocobolo Head, Steel Clad. Full Polished and Nickel Plated.

The Ratchet design is new and unique; the Pawls are strong and positive in action; the Pawl Opener is made from one piece of steel, while the Ball Bearings in the head are contained in a dust-proof compartment within the quill.

		Per Dozen
No. 408.	8-inch sweep.....(QUICK)	\$33.00
No. 410.	10-inch sweep.....(QUEST)	36.00
No. 412.	12-inch sweep.....(QUACK)	39.00
No. 414.	14-inch sweep.....(QUILL)	42.00

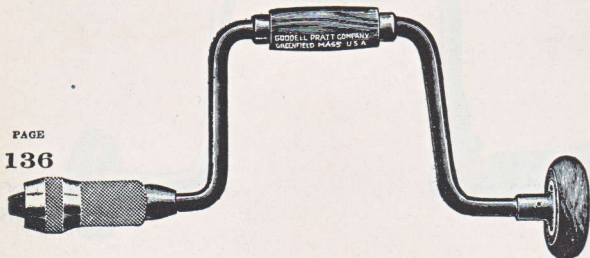
Packed one sixth dozen in a box.

Weight, 33 pounds per dozen.

Plain Braces

Patented December 27, 1892

Full Polished and Nickel Plated



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This Brace has Malleable Iron Socket and Shell, Forged Steel Jaws that open when shell is loosened to receive the Bit, Cocobolo Handle and Lignum-vitæ Head. The Centers upon which the handle runs are adjustable steel collars, which can be taken up to compensate for wear.

		Per Dozen
No. 208.	8-inch sweep.....(QUENCH)	\$24.00
No. 210.	10-inch sweep.....(QUAIL)	27.00
No. 212.	12-inch sweep.....(QUOIT)	30.00
No. 214.	14-inch sweep.....(QUIT)	33.00

Packed one sixth dozen in a box.

Weight, 33 pounds per dozen.



Wimble Braces

We make the above Braces in two sizes, with Double Sweep or Wimble pattern.

No. 260. 10-inch, per dozen (QUANCE) \$37.00

No. 262. 12-inch, per dozen . . . (QUAX) 40.00

Packed one sixth dozen in a box.

PAGE

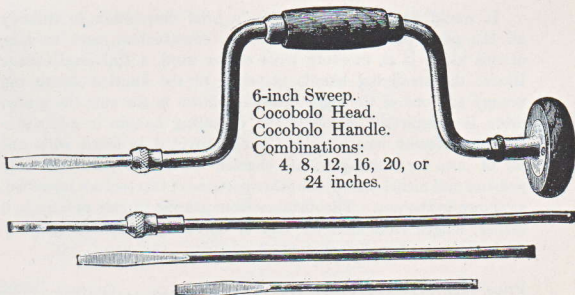
137

Brace Screw-Driver Set

No. 230

6-inch Sweep.
Cocobolo Head.
Cocobolo Handle.
Combinations:

4, 8, 12, 16, 20, or
24 inches.



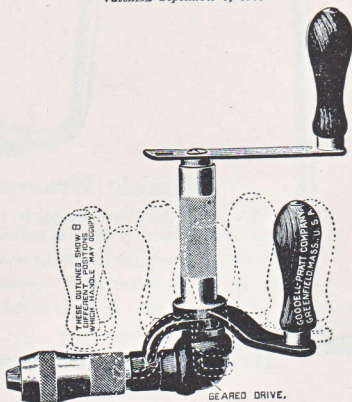
Price, complete as shown. (QUE) \$1.75

Packed one in a box, $12\frac{1}{4} \times 4\frac{1}{4} \times 3\frac{1}{2}$ inches.

Universal Corner Brace

No. 215

Patented September 9, 1905



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It would hardly be possible in a brief description to embody all the good points in the make-up, construction, and working of this tool. It is, in every sense of the word, a Universal Corner Brace; the steadying handle attached to the knurled sleeve can occupy any one of the eight positions shown in the cut; the geared drive is completely inclosed; the operating handle is adjustable to two different lengths; the Chuck provided is fitted with one set of jaws for holding square shanks; the bright parts are fully polished and nickel plated; the other portions of this tool are japanned, as shown in the cut. The distance from gearing to end of Chuck, 6 inches; length from extreme end of operating handle to gearing 10 inches; weight of each tool, 3 pounds.

Price, each.....(QUIVER) \$3.00

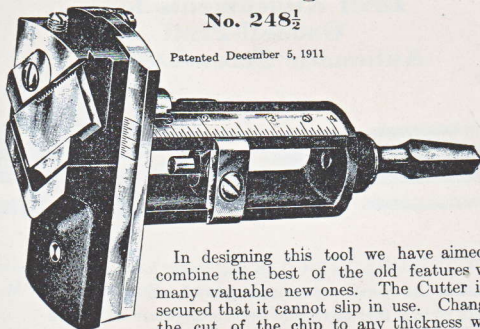
Packed one in a box, $7\frac{1}{4} \times 7\frac{1}{4} \times 1\frac{3}{4}$ inches.

Weight, $3\frac{1}{2}$ pounds.

Hollow Auger

No. 248 $\frac{1}{2}$

Patented December 5, 1911



In designing this tool we have aimed to combine the best of the old features with many valuable new ones. The Cutter is so secured that it cannot slip in use. Changing the cut of the chip to any thickness without changing the Cutter is another decided improvement. It will handle any size Tenon from $\frac{1}{4}$ inch to $1\frac{1}{4}$ inches in diameter, 4 inches in length; graduated for both diameter and length of cut.

Price, each.....(QUERN) \$3.25

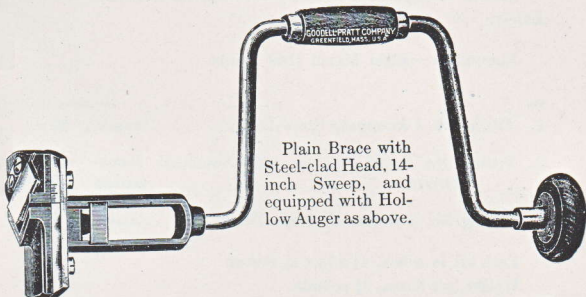
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Hollow Auger

No. 248

Patented December 5, 1911



Plain Brace with Steel-clad Head, 14-inch Sweep, and equipped with Hollow Auger as above.

Price, each.....(QUELL) \$4.00

Drill Attachments for Goodell-Pratt Automatic Screw-Drivers



We are offering this Set as an attachment for our Screw-Drivers to enable the operator to do small jobs of drilling with them. We do not pretend that this combination is anywhere near equal to an Automatic Drill, but for occasional use it will prove very valuable.

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As shown above, each Set consists of a Chuck and eight Fluted Drill Points.

CHUCK.—Same as that used on Automatic Drills; brass nickel-plated Nut, with hardened steel Jaws.

SHANK.—Steel, milled to fit the socket of an Automatic Screw-Driver.

EQUIPMENT.—Eight Fluted Drill Points.

No.		Per Dozen Sets
1.	Fitting No. 1 Automatic Screw-Driver (HAMLET)	\$9.00
2.	Fitting No. 2, 22, 111, or 555 Automatic Screw-Driver (HALLOW)	9.00
3.	Fitting No. 3 Automatic Screw-Driver (HALTER)	9.00

Each set in a box, $4\frac{1}{4} \times 1\frac{1}{4} \times 1\frac{1}{4}$ inches.

Weight, per dozen, $2\frac{1}{4}$ pounds.

Wm. Pratt

Spiral Ratchet Screw-Driver

No. 111

Patented May 12, 1908

With Three Interchangeable Tool Steel Blades

Length, extended, with Blade in place, 18 inches.

Length, closed, with Blade removed, 10 inches.

Angle slant of Spiral, 20°.

This tool is a strong, heavy, practical Automatic Screw-Driver, capable of either right or left hand work automatically or by using the ratchet mechanism, and can also be made a stationary Screw-Driver by setting the shifter knob at the star marked on the polished ferrule.

The mechanism of this tool is as simple as it is possible to make it and provide for the various changes necessary to accomplish the right, left, rigid, automatic, or ratchet work. The dogs operating upon the spiral nuts are made of a special tool steel, the changes being accomplished by a formed ring contained within the knurled shell; this ring, when the shifter knob is moved, shifts the dogs to the required position. If the operator desires to take the tool to pieces, he should use great care in reassembling, and see that each part is in its proper place.

The entire bearing of an Automatic Screw-Driver is upon the internal thread of the spiral nuts; we therefore make these nuts from a very hard grade of bronze rod, the material which our many years' experience in this line has demonstrated to be the best. The groove of the spiral should be kept well oiled with a good lubricating oil, as these nuts will wear out very quickly if allowed to run dry.

Price, per dozen.....(ASTER) \$30.00

Each tool packed in a box, $10\frac{1}{4} \times 1\frac{3}{4} \times 1\frac{3}{4}$ inches.

Weight, per dozen, 12 pounds.



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Automatic Interchangeable Screw-Drivers

No. G40

Patented July 22, 1890; November 17, 1891

This tool is intended to be used as an Automatic Screw-Driver for driving screws only, that is, it has but one spiral and that for right hand work. It is simple in its construction, strong, durable, and will not get out of order, as it is entirely without the mechanism necessary for the accomplishment of the various movements required in a Reversible Automatic Screw-Driver.

Where the purchaser has little use for the left hand or drawing movement of an Automatic Screw-Driver he will do well to purchase this style, which from its simplicity of construction will give him greater service than he can possibly obtain from the more complicated styles.

The three Bits furnished are made from the best cast steel, nicely finished and of different sizes.

This style of Screw-Driver we make in three sizes, Nos. 1, 2, and 3, as mentioned below.

The slant of the spiral determines the relative power of Automatic Screw-Drivers. The less the slant-angle, the greater the power. The No. 1 spiral slants 40°; the No. 2 spiral slants 30° the No. 3 spiral slants 20°. The No. 3 is recommended for heavy work.

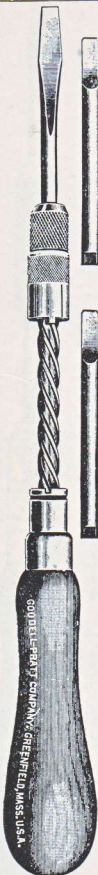
Each with three Bits

No.		Per Dozen
1.	Length, extended, 14 inch.... (ABROAD)	\$21.00
2.	Length, extended, 16 inch... (ABREAST)	24.00
3.	Length, extended, 18 inch.... (AGATE)	27.00
	Extra Bits.....	2.00

Each Screw-Driver is packed in a strong paper box.

Shipping weight, about 8 pounds per dozen.

For Drill Attachments fitting these Screw-Drivers, see page 140.



Reversible Automatic Interchangeable Screw-Driver

No. 22

Patented October 5, 1897

The cut on this page represents the simplest, the most compact, the strongest, and in every way the most practical tool for both driving and drawing screws automatically, yet produced.

It has two separate and distinct Spirals, each working entirely independent of the other.

This Screw-Driver is of the same general appearance and relative size as the Goodell-Pratt Screw-Driver, No. 2.

Unquestionably the finest specimen of mechanical ingenuity ever shown in a Screw-Driver.

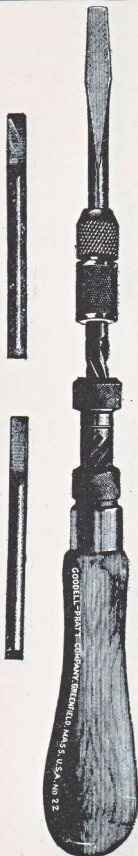
Each with three Bits

Price, per dozen (APPEAR) \$30.00

Length, with one spiral out, $16\frac{1}{2}$ inches.

Packed one in a box, $9 \times 2 \times 1\frac{3}{4}$ inches.

Weight, about 11 pounds per dozen.



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Reversible Automatic Interchangeable Screw-Driver

No. 555

With Three Tool Steel Blades

Length, extended, $18\frac{1}{2}$ inches.

The Operating and Shift Mechanism of this tool is contained within the Knurled Ferrule nearest the Handle and is regulated by turning this Ferrule to the right or left as it is desired that the Spiral should run. The Springs and Dogs contained in the operating mechanism are spring steel, oil tempered, and every part of the tool is so constructed as to make it not only practical but very durable.

The finish is of our usual high order, the Handle being made of hard wood in a polished mahogany finish, and all other parts except the Spiral being nickel plated. The three Blades are made from the best cast steel, nicely finished and of different sizes.

Price, per dozen, (ARGOL) \$30.00

Each tool packed in a box, $10\frac{1}{4} \times 1\frac{3}{4} \times 1\frac{3}{4}$ inches.

Weight, per dozen, 12 pounds.



Reciprocating Automatic Screw-Driver

No. 100

This Screw-Driver is for driving screws only; its motion when in use is continuous in one direction and it cannot be reversed.

Moving the Traveling Handle up and down turns the spiral continually to the right. It will be found of great use where large numbers of screws have to be rapidly driven in either soft wood or soft metal.

This tool is exactly like the No. 101 shown on page 19 except in the Chuck; the construction of this part is the same as that employed upon our Automatic Screw-Drivers, and is arranged to firmly hold the three Screw-Driver Blades furnished with it.

Ball-Bearing Lignum-vitæ Head.

Polished Cherry Traveling Handle, $4\frac{1}{2}$ inches long.

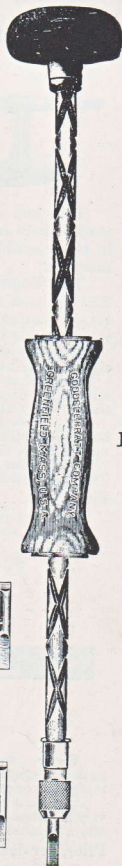
Steel Spiral, slanting 20° .

Length, 16 inches.

Price, per dozen.....(CARPEL) \$24.00

Packed one in a box.

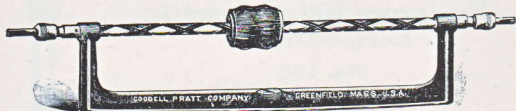
Weight, $1\frac{1}{4}$ pounds.



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Bench Automatic Screw-Driver No. 32



This tool is designed, built, and peculiarly adapted for bench work, where large numbers of screws have to be driven into place in the assembling of small hardware or the parts of small tools or machines.

The Frame can be securely fastened to the bench, and the moving back and forth of the Traveling Handle gives a continuous rotary motion to the Screw-Driver Blade, which is firmly secured in a suitable Chuck.

It will be noted that each end is fitted with a Chuck and Blade, one for right hand and the other for left hand.

This tool is particularly recommended for driving small screws into iron, steel, brass, or porcelain, where holes have been previously tapped; the Spiral slants twenty degrees, making it easy in action and powerful in effect.

Two Screw-Driver Blades from the best tool steel are furnished with each, but special blades particularly adapted for the work to be performed can be readily made, and will be found extremely desirable.

The Frame is finished in black enamel, all steel parts are polished, the Traveling Handle is of dark cherry with nickel-plated flanges.

Price, each.....(APPALL) \$3.00

Each tool packed in a box, $18\frac{1}{4} \times 4\frac{1}{4} \times 2$ inches.

Shipping weight, 3 pounds.

Gunsmiths' Screw-Driver No. 33



Every Blade Warranted

We are offering this little Screw-Driver because our friends have made so many demands upon us for a tool of this character which they can sell at a reasonable price and still be able to guarantee its quality.

It is made in one size only, with the Blade protruding about one inch. The very best steel obtainable is used in making this Blade, which is securely fastened into a polished cherry handle.

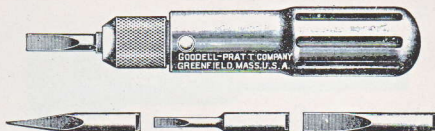
Price, per dozen.....(APPLAUD) \$3.00

Packed one half dozen in a box, $6\frac{1}{4} \times 4\frac{1}{4} \times 1\frac{1}{2}$ inches.

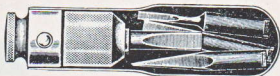
Weight, per dozen, $1\frac{1}{4}$ pounds.

Pocket Screw-Driver Set

No. 231



This little Pocket Screw-Driver Set, with three Blades of assorted sizes, and one Reamer for making or enlarging holes, will be found most convenient and attractive. In the explanatory cut the tool is shown in its closed form with a side cut away to show the location of the different blades in the handle. The tool is fully polished, nickel plated, and buffed. It is $3\frac{1}{4}$ inches long, closed, and weighs 4 ounces.



Price, each (ACUTE) \$0.50
Packed one in a box.

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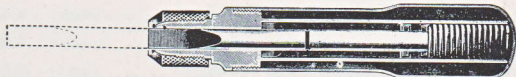
Pocket Screw-Driver

No. 232



This Pocket Screw-Driver, shown in the regular cut in an open position, can be closed by pressing upon the end of the blade and giving a slight turn to the Knurled Nut, and will remain in a closed position until the Knurled Nut is loosened, when the Screw-Driver Blade immediately springs into place. This unique feature will insure its popularity, the Handle is full polished and nickel plated; the Blade is of the best quality, and the price for a device of this character is very interesting.

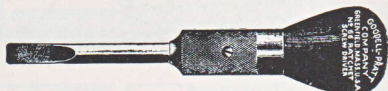
Length, closed, $4\frac{3}{4}$ inches; length, open, 6 inches; weight, 4 ounces.



Price, each (ADAGE) \$0.50
Packed one in a box.

Ratchet Screw-Driver

No. 66



Style of 1 1/2, 2, 3 inch



Style of 4, 5, 6, 8, 10 inch

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Our Ratchet Screw-Drivers have already made a reputation for themselves because of their strength and durability; while we do not pretend that they are the cheapest tool of this description, we believe they are well worth the price asked, and from the steady increase in our trade it is quite evident that users agree with us.

The mechanism of these tools is very simple; the Ratchet Teeth are cut directly into the stem of the Blade and the two Dogs and two Springs which make up the entire ratchet mechanism are of tool steel and oil tempered. Changes from right to left or rigid are accomplished by turning the Knurled Shell.

	Per Dozen		Per Dozen
1 1/2 inches.....(ALLAY)	\$5.00	5 inches.....(ANTOR)	\$7.25
2 inches.....(ALLEY)	5.00	6 inches.....(ARMER)	8.00
3 inches.....(ALLOY)	6.00	8 inches.....(AMUR)	9.00
4 inches.....(ARDER)	6.50	10 inches.....(AMEER)	10.00

Packed one half dozen in each box.

Screw-Driver Set

No. G25



This set consists of a hard-wood Handle, nicely finished, a strong Chuck, and three warranted Screw-Driver Blades, carefully tempered and highly polished.

Price, per dozen (BELONG) \$6.00

Each set packed in a box, $6\frac{1}{2} \times 1\frac{3}{4} \times 1\frac{3}{4}$ inches.

Weight, 8 ounces.

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Screw-Driver Set

No. G20



This set consists of a hard-wood Handle, nicely finished, a strong Chuck, and two Screw-Driver Blades, and one square Reamer, all made from the very best steel, carefully tempered and highly polished.

Price, per dozen (BEFORE) \$6.00

Each set packed in a box, $6\frac{1}{2} \times 1\frac{3}{4} \times 1\frac{3}{4}$ inches.

Weight, 8 ounces.

Plain Screw-Drivers

No. 909



These plain Screw-Drivers, made in nine sizes, from 2 inches to 12 inches, with hammer-forged, oil-tempered Blades, heavy steel Ferrule, square Tang, hard-wood Handle, with longitudinal corrugations, make an addition to our line of tools that will be appreciated by our many customers and prove immensely popular with users generally. They are designed along modern lines, well made and well finished.

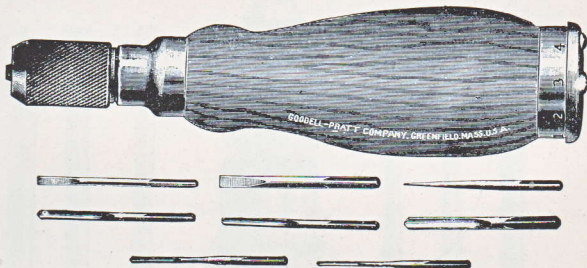
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	Per Dozen
2 inches.....(ADDER)	\$2.00
3 inches.....(ADDLE)	2.50
4 inches.....(ADEPT)	3.00
5 inches.....(ADIT)	3.50
6 inches.....(ADJUST)	4.00
7 inches.....(ADMIX)	5.00
8 inches.....(ADOBE)	5.50
10 inches.....(AFFLUX)	6.50
12 inches.....(AFFRAY)	9.00

Packed one half dozen in a box.

Turret Head Tool Set No. 10



The five Fluted Awls will be found vastly superior to the old-fashioned kind, as the liability of their splitting the work when in use is reduced to a minimum. The two Screw-Driver Blades are of different sizes, and the Scratch Awl will be found oftentimes useful. They are made from drill wire, and are carefully tempered. The Handle is made of polished hard wood, and all mountings are nickel plated.

Price, per dozen.....(CARMEN) \$8.00

Packed one in a box, $5\frac{3}{4} \times 2 \times 1\frac{3}{4}$ inches.

Weight, 6 ounces.

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Universal Tool Handle No. 13

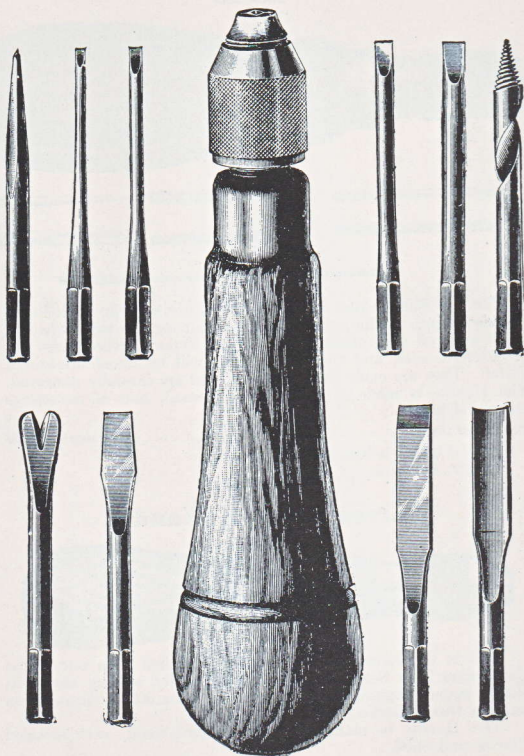


This is the same handle regularly furnished with our Home Companion Tool Sets, and is well adapted for holding any tools having square shanks, like or similar to those usually found upon tools of this character.

The Handle is made of polished hard wood, with nickeled Ferrule and Shell.

Price, per dozen.....(CERATE) \$6.00

Packed one in a box, $7\frac{3}{4} \times 2 \times 1\frac{3}{4}$ inches.



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Hollow-Handle Tool Set

No. 11

We have had so many inquiries for a set of this character that we see no need of apologizing for having produced one.

The cut on the opposite page will give a good idea of their general appearance.

HANDLE.—Polished Cocobolo.

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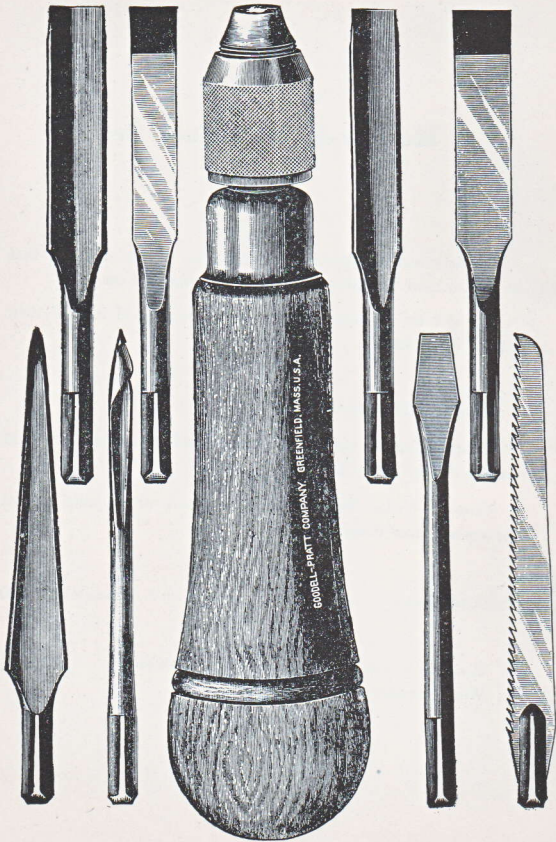
TOOLS.—Ten in number, hardened and tempered from best cast steel, and nicely finished.

CHUCK.—Nickel Plated, and constructed with special regard for strength and durability.

Price, per dozen.....(CEMENT) \$12.00

Each set in a separate box, $6\frac{1}{4} \times 2 \times 1\frac{3}{4}$ inches.

Weight, 9 ounces.



Hollow-Handle Tool Set

No. 12

This set will be found of the same high quality as the No. 11, differing only in being larger and equipped with only eight tools. These are, however, of sufficient size to make them practical to use in much more than an amateur way.

HANDLE.—Polished Cocobolo.

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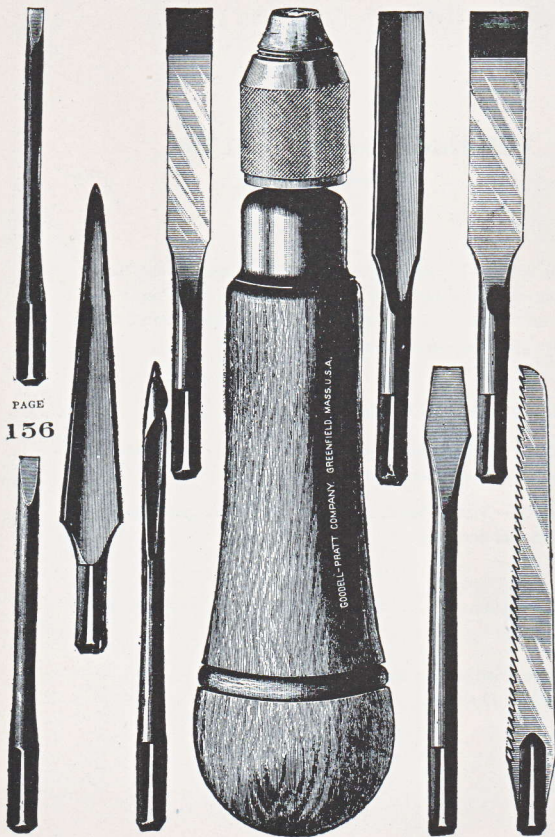
TOOLS.—Eight in number, as shown in cut, made from best cast steel, carefully hardened and tempered

CHUCK.—Nickel Plated, and constructed with special regard to strength and durability.

Price, per dozen (CHARGER) \$20.00

Packed one set in a box, $7\frac{1}{2}$ x 2 x 2 inches.

Weight, 13 ounces.



Hollow-Handle Tool Set

No. 12 $\frac{1}{2}$

The annexed cut represents our No. 12 $\frac{1}{2}$ Tool Set. As seen in the assortment of tools, the list covers about all the requirements demanded of this class of tools.

Following are the specifications:

HANDLE.—Polished Cocobolo.

TOOLS.—Nine in number, oil tempered.

CHUCK.—Nickel Plated, and constructed with special regard to strength and durability.

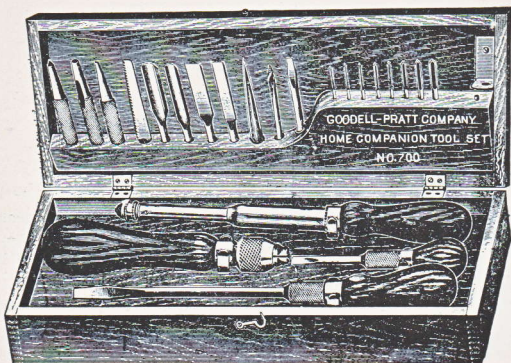
Price, per dozen.....(CHARMER) \$20.00

Packed one set in a box, 7 $\frac{1}{2}$ x 2 x 2 inches.

Weight, 13 ounces.

Home Companion Tool Set

No. 700



Containing an assortment of high-grade tools of exceptional value in the household, office, or workshop. They are conveniently arranged in a polished hard-wood case. Needs only to be seen to be appreciated. This case contains the following:

- 1 Ratchet Screw-Driver, 6 inch.
- 1 Ratchet Screw-Driver, $1\frac{1}{2}$ inch.
- 1 Cocobolo Handle Automatic Drill.
 - 8 Drills for same from $\frac{1}{16}$ to $\frac{1}{8}\frac{1}{4}$ inch.
- 1 Universal Tool Handle for holding:
 - 2 Gouges.
 - 2 Chisels.
 - 1 Reamer.
 - 1 Saw.
 - 1 Gimlet.
 - 1 Screw-Driver.
- 1 Nail Set.
- 1 Prick Punch.
- 1 Saddlers' Drive Punch.

Size of case, $13\frac{1}{8}$ x $5\frac{1}{2}$ x 3 inches.

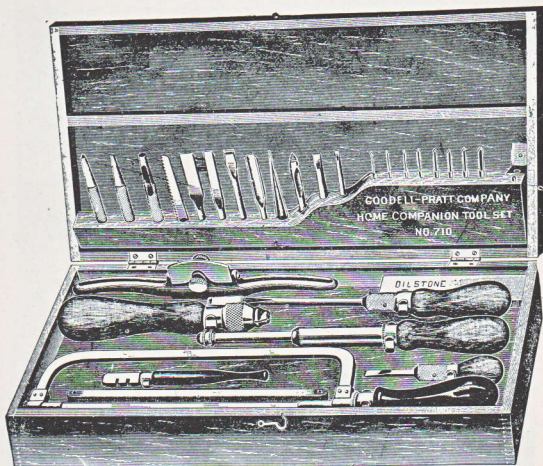
Price, list each, complete as shown.....(PANTRY) \$5.00

Weight, 4 pounds.

Goodell-Pratt Company

Home Companion Tool Set

No. 710



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Containing a very complete assortment of high-grade tools of exceptional value to the household, office, or workshop. They are conveniently arranged in a polished hard-wood case, useful for odd jobs anywhere. This case contains the following:

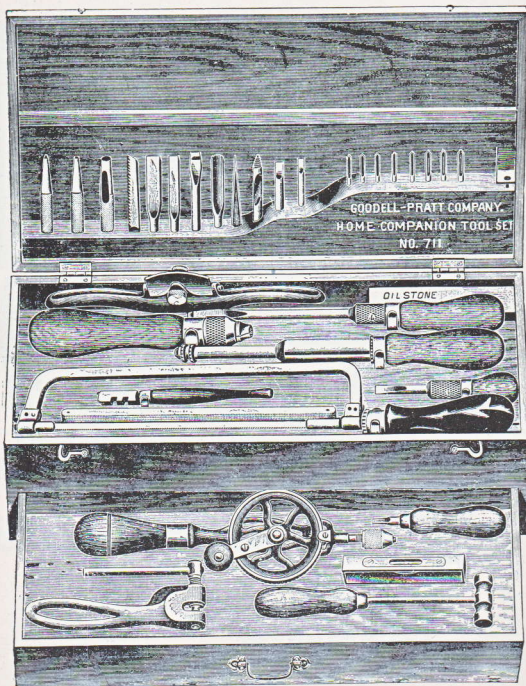
- | | |
|------------------------------------------|----------------------------|
| 1 Ratchet Screw-Driver, 6 inch. | 1 Tool Handle for holding; |
| 1 Ratchet Screw-Driver, 1½ inch. | 1 Gouge. |
| 1 Hand Shave. | 2 Chisels. |
| 1 Hack-Saw Frame. | 1 Screw-Driver. |
| 6 Coarse Teeth Blades for same. | 2 Brad Awls. |
| 3 Fine Teeth Blades for same. | 1 Gimlet. |
| 2 Extra Fine Teeth Blades for same. | 1 Reamer. |
| 1 Polished Bone Saw for same. | 1 Saw. |
| 1 Glass Cutter. | 1 Nail Set. |
| 1 Cocobolo Handle Automatic Drill. | 1 Prick Punch. |
| 8 Drills for same from ⅛ inch to ¾ inch. | 1 Saddlers' Drive Punch. |
| | 1 Solid Punch. |
| | 1 Oil Stone. |

Size of case, 16 x 8½ x 3½ inches.

Price, list each, complete as shown.....(PARADE) \$7.50.

Weight, 7½ pounds.

Goodell-Pratt Company



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Home Companion Tool Set

No. 711

The extreme popularity of the two Home Companion Tool Sets shown in our previous Catalog has created a demand for a still larger assortment of these special tools, put up in the same attractive manner as shown in the cut on the opposite page. The upper part of the case contains the same tools put up with our No. 710, the additional equipment is contained in the drawer below a complete list is appended herewith:

1 Hand Drill, with Three-Jawed Chuck and eight Drill Points.

1 4-inch Iron Level.

1 Metal Punch.

1 Brass Hammer.

1 Gunsmiths' Screw-Driver.

1 Ratchet Screw-Driver, 6 inch.

1 Ratchet Screw-Driver, 1½ inch.

1 Hand Shave.

1 Hack Saw Frame.

6 Coarse Teeth Blades for same.

3 Fine Teeth Blades for same.

2 Extra Fine Teeth Blades for same.

1 Polished Bone Saw for same.

1 Glass Cutter.

1 Cocobolo Handle Automatic Drill.

8 Drills for same, from $\frac{1}{16}$ inch to $\frac{11}{16}$ inch.

1 Tool Handle for holding,

1 Gouge.

2 Chisels.

1 Screw-Driver.

2 Brad Awls.

1 Gimlet.

1 Reamer

1 Saw.

1 Nail Set.

1 Prick Punch.

1 Saddlers' Drive Punch.

1 Solid Punch.

1 Oil Stone.

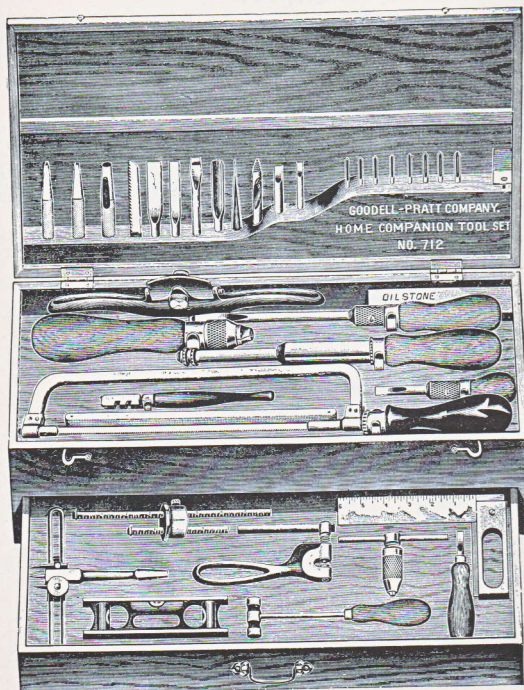
Size of case, 16 x 8½ x 5½ inches.

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Price, list, complete as shown (PAGAN) \$12.00

Weight, 11½ pounds.



Home Companion Tool Set

No. 712

This assortment covers a little wider field than any of the series before described. The contents of the lower drawer we commend particularly to your attention. A complete list of the tools contained in this assortment is appended herewith:

- 1 6-inch All Steel Try Square, graduated blade.
- 1 6-inch Iron Level, with Double Plumb.
- 1 Double Beam Combination Roller Gauge.
- 1 Washer Cutter.
- 1 Gunsmiths' Screw-Driver.
- 1 Tool or Tap Holder for holding small tools with square shanks.
- 1 Brass Hammer.
- 1 Lever Metal Punch.
- 1 Ratchet Screw-Driver, 6 inch.
- 1 Ratchet Screw-Driver, 1½ inch.
- 1 Hand Shave.
- 1 Hack-Saw Frame.
 - 6 Coarse Teeth Blades for same.
 - 3 Fine Teeth Blades for same.
 - 2 Extra Fine Teeth Blades for same.
 - 1 Polished Bone Saw for same.
- 1 Glass Cutter.
- 1 Cocobolo Handle Automatic Drill.
 - 8 Drills for same, from $\frac{1}{16}$ inch to $\frac{1}{4}$ inch.
- 1 Tool Handle for holding:
 - 1 Gouge.
 - 2 Chisels.
 - 1 Screw-Driver.
 - 2 Brad Awls.
 - 1 Gimlet.
 - 1 Reamer.
 - 1 Saw.
- 1 Nail Set.
- 1 Prick Punch.
- 1 Saddlers' Drive Punch.
- 1 Solid Punch.
- 1 Oil Stone.

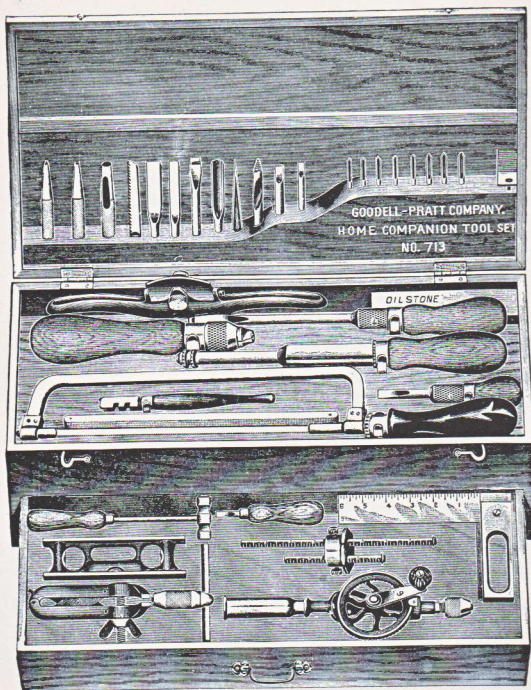
Size of case, 16 x 8½ x 5½ inches.

Price, list, complete as shown.....(PADDOCK) \$15.00

Weight, 13½ pounds.

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Home Companion Tool Set

No. 713

This is the most elaborate assortment that we put up. It contains a large variety of special tools, all the very best quality. A complete list is appended herewith:

- 1 6-inch All Steel Try Square, graduated blade.
- 1 6-inch Iron Level, with Double Plumb.
- 1 Double Beam Combination Roller Gauge.
- 1 Gunsmiths' Screw-Driver.
- 1 Tool or Tap Holder for holding small tools with square shanks.
- 1 Geared Hand Drill, fitted with Three-jawed Chuck and equipped with 8 Drill Points.
- 1 Small Brass Hammer.
- 1 Drop Forged Hand Vise.
- 1 Ratchet Screw-Driver, 6 inch.
- 1 Ratchet Screw-Driver, 1½ inch.
- 1 Hand Shave.
- 1 Hack-Saw Frame.
 - 6 Coarse Teeth Blades for same.
 - 3 Fine Teeth Blades for same.
 - 2 Extra Fine Teeth Blades for same.
 - 1 Polished Bone Saw for same.
- 1 Glass Cutter.
- 1 Cocobolo Handle Automatic Drill.
 - 8 Drills for same, from $\frac{1}{16}$ inch to $\frac{11}{16}$ inch.
- 1 Tool Handle for holding:
 - 1 Gouge.
 - 2 Chisels.
 - 1 Screw-Driver.
 - 2 Brad Awls.
 - 1 Gimlet.
 - 1 Reamer.
 - 1 Saw.
- 1 Nail Set.
- 1 Prick Punch.
- 1 Saddlers' Drive Punch.
- 1 Solid Punch.
- 1 Oil Stone.

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Size of case, 16 x 8½ x 5½ inches.

Price, list, complete as shown..... (PALLET) \$17.50

Weight, 14 pounds.

Hack-Saw Blades




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TRADE MARK REGISTERED



We believe that all Hack-Saw Blades under our  brand represent the highest type of Hack-Saw Blade that it is possible to produce. They are made from a specially fine quality of hot-rolled sheet steel, sharpened and set by a peculiar process of our own, which insures for them remarkably fast cutting qualities. Exceptional care is exercised in the tempering and every care we know how to exercise is being exercised in an endeavor to make these goods as near perfect as it is possible to make them. They are subject to the most rigid inspection; their quality is being carefully guarded through continuous and exhaustive tests; they have made a name for themselves as fast, free, and easy cutters, and these points have a large bearing upon their real value to users of such tools. They are made with 14 teeth to the inch for general work, or with 20 teeth to the inch for brass and the heavier grades of tubing, and in 8 or 9 inch sizes we can furnish Blades with 32 teeth to the inch, especially adapted for thin steel tubing.

Goodell-Pratt Hack Saws

Price Lists

(G)

(G)

REGULAR. 14 teeth to the inch.

For Iron or Steel.

		Per Dozen	Per Gross
8 inch.....	(EAGLE)	\$0.65	\$7.80
9 inch.....	(EASEL)	.70	8.40
10 inch.....	(ENHANCE)	.85	10.20
11 inch.....	(ENHEAL)	.95	11.40
12 inch.....	(EPOCH)	1.05	12.60
13 inch.....	(EPSOL)	1.15	13.80
14 inch.....	(EARNER)	1.25	15.00

(G)

(G)

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FINE. 20 teeth to the inch.

For Brass or Tubing.

		Per Dozen	Per Gross
8 inch.....	(ELF)	\$0.65	\$7.80
9 inch.....	(ELTER)	.70	8.40
10 inch.....	(ENTAIL)	.85	10.20
11 inch.....	(ENSIGN)	.95	11.40
12 inch.....	(ETHER)	1.05	12.60

(G)


(G)

EXTRA FINE. 32 teeth to the inch.

For Thin Steel Tubing.

		Per Dozen	Per Gross
8 inch.....	(ECKMUS)	\$0.65	\$7.80
9 inch.....	(ELFIN)	.70	8.40

All Blades packed half gross in a box.

 Regular Blades, 14 teeth to the inch, always sent unless otherwise specified.

Heavy Hack-Saw Blades

No. 300



These Blades are intended for heavy work or for use in power machines. They are $\frac{3}{4}$ inch wide, No. 21 gauge, about .035 inch thick; they are made 14 teeth to the inch, have an even set, and are tempered all over.

		Per Gross
12 inch.....	(GATE)	\$15.00
13 $\frac{1}{2}$ inch.....	(GALD)	18.00
14 inch.....	(GARD)	18.00
16 inch.....	(GALLON)	21.00
16 $\frac{1}{2}$ inch.....	(GAMBLE)	21.00
17 inch.....	(GABLE)	22.20

Packed one half gross in a box.

Length measurements are from center to center of hole.

Extra Heavy Hack-Saw Blades

No. 500



These Blades are $\frac{3}{4}$ inch wide, No. 18 gauge, about .050 inch thick. They have 12 teeth to the inch, otherwise the Blades are identical with those shown above.

		Per Gross
12 inch.....	(HUND)	\$18.00
13 $\frac{1}{2}$ inch.....	(HUNTER)	21.60
14 inch.....	(HIRST)	21.60
16 inch.....	(HAFT)	25.20
16 $\frac{1}{2}$ inch.....	(HEFT)	25.20
17 inch.....	(HAIL)	27.60

Packed one half gross in a box.

Length measurements are from center to center of hole.

Goodell-Pratt Special Tool Room Hack Saws



Experience has taught us that it is often a matter of great convenience, especially in tool-room work, to have Hack-Saw Blades of various thicknesses and with comparatively little set for special slotting and a variety of accurate work which otherwise could not be done with a Hack Saw. The Blades which we have listed below will be found well adapted for these uses. The teeth are cut and swaged by a special process, different from the one we use in making the ordinary set Blades. They are made in 8-inch lengths only, and can be furnished separately in any of the dimensions listed, or in sets, as desired.

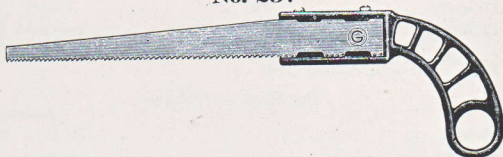
Length		Per Dozen	Per Gross
8 inch, .016 thick.....	(FAWN)	\$0.75	\$9.00
8 inch, .020 thick.....	(FRAIL)	.75	9.00
8 inch, .028 thick.....	(FRAM)	.75	9.00
8 inch, .032 thick.....	(FANCY)	.75	9.00
8 inch, .040 thick.....	(FAINT)	.75	9.00
8 inch, .050 thick.....	(FACTOR)	.75	9.00

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Keyhole Hack Saw

No. 237



The usefulness of this tool will be at once appreciated from an examination of the cut. The Handle is light and fits the hand well. The tool is 10 inches long over all and the Blade is arranged to give a cutting length of 5½ inches. Handle attractively finished in japan. Price, per dozen.....(FARROW) \$3.00

Packed one half dozen in a box.

Hack-Saw Blades

GP
888

GP
888



GP
888

GP
888

Realizing the demand for a moderate-priced Hack Saw Blade, suitable for all-around work, and which can be sold in competition with the many cheap Blades now on the market, we have installed an equipment and are producing this special brand of Blades by a process that enables us to sell them at a very low price. We do not pretend that they are the equal of the Blades shown on the preceding pages, which cost very much more money; we do pretend that they represent good value for all-around work. They are furnished only in sizes noted below.

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REGULAR. 14 teeth to the inch.

For Iron or Steel.

	List per Gross
8 inch.....	(IAMBIC) \$4.00
9 inch.....	(ICE) 4.50
10 inch.....	(IDEA) 5.00
11 inch.....	(IDIOT) 5.50
12 inch.....	(INDUCT) 6.00

FINE. 20 teeth to the inch.

For Brass or Tubing.

	List per Gross
8 inch.....	(INFLUX) \$4.00
9 inch.....	(INSIDE) 4.50
10 inch.....	(INSIST) 5.00
11 inch.....	(INTER) 5.50
12 inch.....	(IRON) 6.00

All Blades packed half gross in a box.

Regular Blades, 14 teeth to the inch, always sent unless otherwise specified.

Circular Saws

No. 70

For Metal, Bone, or Ivory



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These Circular Saws, while very moderate in price, will be found to possess exceptional quality; they are made in a variety of sizes, which you will find noted below. The teeth are carefully cut, and they are tempered in oil; the steel used is the very finest quality of hot-rolled sheets. They are not ground after being hardened, this operation entailing an unnecessary expense.

These Saws will be found very desirable for cutting copper, brass, German silver, ivory, bone, or like materials; they are well adapted for screw slotting or for cutting shallow slots in iron or steel.

Thickness	1 inch $\frac{3}{8}$ inch	1 $\frac{1}{4}$ inch $\frac{3}{8}$ inch	1 $\frac{1}{2}$ inch $\frac{3}{8}$ inch	2 inch $\frac{3}{8}$ inch	2 $\frac{1}{2}$ inch $\frac{3}{8}$ inch	3 inch $\frac{3}{8}$ inch	Diameter Hole
.016 inch	\$1.50	\$1.75	\$2.00	\$2.75	\$3.50	\$5.00	per Doz.
.021 inch	1.50	1.75	2.00	2.75	3.50	5.00	per Doz.
.028 inch	1.50	1.75	2.00	2.75	3.50	5.00	per Doz.
.032 inch	1.50	1.75	2.00	2.75	3.50	5.00	per Doz.
.040 inch	1.50	1.75	2.00	2.75	3.50	5.00	per Doz.
.050 inch	1.50	1.75	2.00	2.75	3.50	5.00	per Doz.

Packed one dozen in a box.

Adjustable Hack-Saw Frames

One 8-inch **(G)** Blade Furnished with Each Frame



Per Dozen

- No. 1. Full Polished and Nickel Plated; adjustable from 8 inches to 12 inches; all steel except the Handle; one of the handsomest Frames made... (CRANE) \$12.00

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Per Dozen

- No. 2. White Nickeled only; adjustable from 8 inches to 12 inches; all steel except the Handle, differing from the above in finish only; Blades can be faced four ways..... (CAPER) \$10.00



Per Dozen

- No. 02. Finished in Natural Steel, not polished or nickeled; adjustable from 8 inches to 12 inches; constructed in a thoroughly first-class manner; a very serviceable Frame at a moderate price... (CAPON) \$8.50

Solid Hack-Saw Frames



- No. 3. Full Polished and Nickel Plated; solid steel; for 8-inch Blades only; one of the handsomest solid Frames ever shown; Blades can be faced four ways.....(CARSEL) **\$8.50** Per Dozen
- One 8-inch **(G)** Blade furnished with this Frame.



Solid Steel Frames, natural finish, Enameled Handle; Blade can be faced four ways. Furnished in sizes as listed below.

		Per Dozen
No. 8.	8-inch.....(CASTE)	\$5.00
No. 9.	9-inch.....(CANCER)	5.50
No. 10.	10-inch.....(CANDOR)	6.00
No. 11.	11-inch.....(CRADLE)	6.50
No. 12.	12-inch.....(CANDLE)	7.00

Packed one in a box.



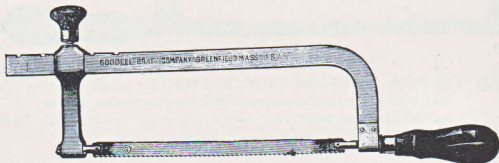
Cast Iron Frames, japanned finish, Polished Hard-Wood Handles; Blades can be faced four ways. Furnished in sizes as listed below.

		Per Dozen
No. 4.	8-inch.....(CALDEN)	\$3.50
No. 5.	9-inch.....(CENDAL)	3.50
No. 6.	10-inch.....(CONDAL)	4.00

Packed one in a box.

Heavy Adjustable Hack-Saw Frames

These Heavy Adjustable Hack-Saw Frames are for Blades from 8 to 12 inches in length, made from stock $\frac{1}{4}$ by $\frac{3}{4}$ inch, making heavy, rigid Adjustable Frames; Blades can be faced in four different directions. Depth of throat, $3\frac{1}{2}$ inches.



		Per Dozen
No. 69.	Polished and Nickel Plated.....	(BARREN) \$15.00
No. 69B.	Black Finish.....	(BUNYAN) 12.00

Heavy Hack-Saw Frames



This very complete line of Heavy Solid Hack-Saw Frames will be found particularly desirable by mechanics who have frequent use for tools of this character. They are absolutely rigid; Blades can be faced in four different directions.

One (G) Blade furnished with each Frame.

		Per Dozen
No. 64.	For 8-inch Blades only, steel Frame, $\frac{1}{4}$ by $\frac{3}{4}$ inch, $3\frac{1}{2}$ -inch throat. Polished and Nickel Plated.....	(BROOD) \$9.00
No. 64B.	Same as No. 64, but with Black Finish.....	(BLARE) 7.00
No. 65.	For 10-inch Blades only, steel Frame, $\frac{1}{4}$ by $\frac{7}{8}$ inch, $3\frac{1}{2}$ -inch throat. Polished and Nickel Plated.....	(BROTE) 10.00
No. 65B.	Same as No. 65, but with Black Finish.....	(BLAST) 8.00
No. 66.	For 12-inch Blades only, steel Frame, $\frac{1}{4}$ by 1 inch, $3\frac{1}{2}$ -inch throat. Polished and Nickel Plated.....	(BROST) 12.00
No. 66B.	Same as No. 66, but with Black Finish.....	(BLANCH) 10.00

Heavy Hack-Saw Frames



These Frames are the same as those described on the preceding page, but have greater depth of throat, as shown in cut and noted in description.

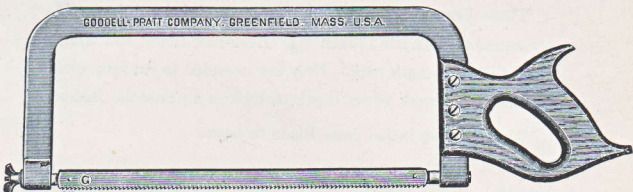
		Per Dozen
No. 14.	For 12-inch Blades only, steel Frame, $\frac{1}{4}$ by 1 inch, $5\frac{1}{4}$ -inch throat. Polished and Nickel Plated.....(BRACER)	\$15.00
No. 14B.	Same as No. 14, but with Black Finish.....(BASIN)	12.00
No. 67.	For 13-inch Blades only, steel Frame, $\frac{1}{4}$ by 1 inch, $5\frac{1}{4}$ -inch throat. Polished and Nickel Plated.....(BANTER)	16.00
No. 67B.	Same as No. 67, but with Black Finish.....(BASSOON)	13.00
No. 68.	For 14-inch Blades only, steel Frame, $\frac{1}{4}$ by 1 inch, $5\frac{1}{4}$ -inch throat. Polished and Nickel Plated.....(BONDS)	18.00
No. 68B.	Same as No. 68, but with Black Finish.....(BASHAW)	15.00

All the above packed one in a box.

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Heavy Hack-Saw Frames

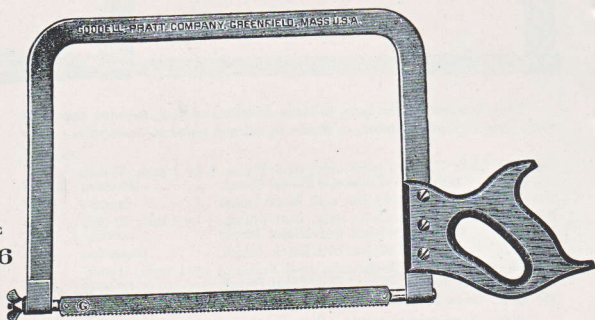


These Frames are made entirely of steel $\frac{1}{4}$ by 1 inch, and are similar to our other heavy styles shown above, but are equipped with Saw Handles, which will be greatly appreciated by the user. Depth of throat, $5\frac{1}{4}$ inches.

		Per Dozen
No. 240.	For 14-inch Blades, Bright Finish.....(BRUSH)	\$20.00
No. 240B.	For 14-inch Blades, Black Finish.....(BRUNT)	17.00

Heavy Hack-Saw Frames

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These Frames are made entirely of steel $\frac{1}{4}$ by 1 inch. They are equipped with one 12-inch **G** Hack-Saw Blade, and will take Blades of this length only. They are intended to cut rails, girders, or other large work where depth of back is an essential feature.

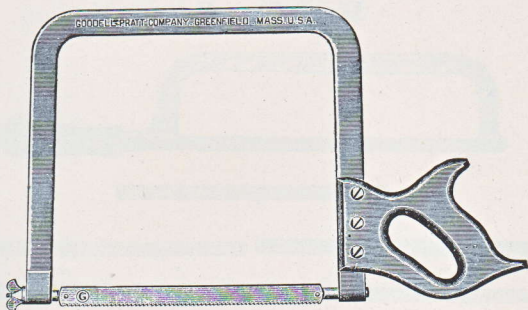
They are $10\frac{1}{4}$ inches from Blade to back.

		Per Dozen
No. 15.	Polished and Nickel Plated (BEACHER)	\$18.00
No. 15B.	Black Finish (BRUISER)	15.00

Packed one-in a box, $23\frac{3}{4}$ x 12 x $1\frac{1}{4}$ inches.

Weight, $3\frac{3}{4}$ pounds.

Heavy Hack-Saw Frames

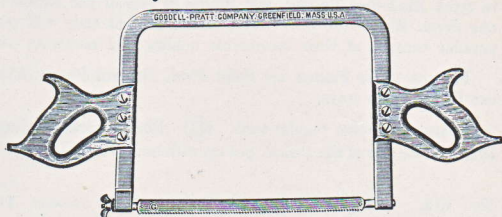


These Frames are made entirely of steel $\frac{1}{4} \times 1$ inch, equipped with one 10-inch **G** Hack-Saw Blade, and will take Blades of this length only. The depth of the throat is 9 inches, and they will be found very convenient in handling work up to their capacity, particularly in many places where heavy rail saws cannot well be used.

They are 9 inches from Blade to back. Full Polished and Nickel Plated.

No. 244. For 10-inch Blades only.....(BULB) Per Dozen \$16.00

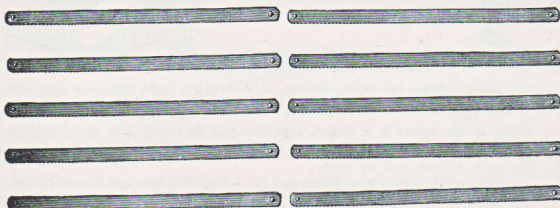
Heavy Hack-Saw Frames



These Frames are made entirely of steel $\frac{1}{4} \times 1$ inch, with *Black Finish*. They are equipped with two handles, as shown in the cut, and are intended for cutting rails, girders, and other large work. They are $10\frac{1}{4}$ inches from Blade to back.

No. 238B. For 14-inch Blades only.....(BUFFER) Per Dozen \$20.00
 No. 239B. For 17-inch Blades only.....(BUGLE) 24.00

Hack-Saw Sets



It being often a matter of convenience for the trade to have in stock Hack-Saw Frames, and Blades in sets of one Frame and one dozen Blades, we offer these, confident that they will prove popular because of their serviceable quality and moderate price.

FRAMES.—The Frames are Solid Steel, Natural Finish; Blades can be faced four ways.

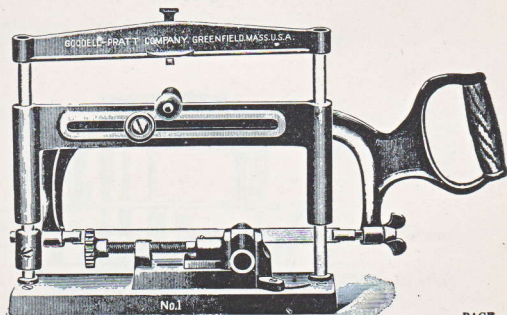
BLADES.—Twelve regular-teeth **(G)** Blades, corresponding in length to the size of the Frame, put up with each set.

		Per Set
No. 812.	8-inch Frame and 12 Blades..... (BARGE)	\$1.05
No. 912.	9-inch Frame and 12 Blades..... (BEACH)	1.15
No. 1012.	10-inch Frame and 12 Blades..... (BIRCH)	1.35
No. 1112.	11-inch Frame and 12 Blades..... (BRAMBLE)	1.50
No. 1212.	12-inch Frame and 12 Blades..... (BRIER)	1.65

Packed one set in a box.

Bench Hack Saw

No. 1



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A Bench Hack Saw is a device for which there has long been a place in repair shops, stores, and small factories. It can be readily fastened to any bench, and will pay for itself in a week's time where iron, steel, or brass rod or tubing have to be cut off.

It is fitted with a Swivel Vise, which can be set to saw at an angle. This point alone is a valuable addition to the usefulness of the machine, as the ability to saw on a miter will often save the operator much time which would otherwise be spent in filing. The machine is made entirely of iron and steel, is carefully constructed, and thoroughly practical in its working. The cut cannot fail to convey an excellent idea of its general features.

One **©** 9-inch Blade is furnished with each machine, which should be strained well in the frame when in use. It is so constructed that 8-inch Blades can be used when desired.

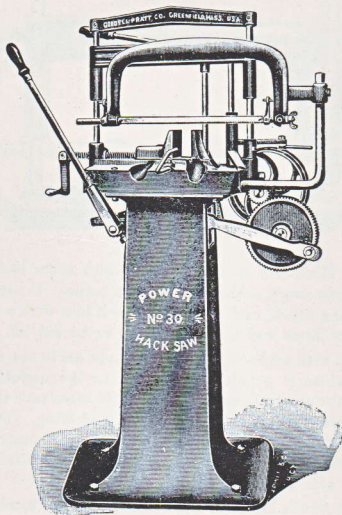
Vise opens 2 inches.

Price, each.....(RAMPART) **\$3.50**

Shipping weight, each, 15 pounds.

Measurements, $18\frac{1}{2}$ x $11\frac{1}{4}$ x 5 inches.

Power Hack Saw No. 30



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Tight and Loose Pulley, 7 inches in diameter. Geared 3 to 1.

Machine should run 45 to 50 strokes per minute to get best results.

Pulley should run 150 revolutions per minute.

Power Hack Saw

No. 30

Power Hack Saws have become so well known to all classes of metal workers that we do not feel called upon to make allusion to their general usefulness. No up-to-date shop can afford to be without one; often where one is in use, two would be found equally profitable.

The illustration upon the opposite page conveys a good idea of the general characteristics of the machine. We have quite recently improved it by reducing the size of the pulley and gearing the machine down to the proper speed; by using cut gears all noise is done away with, there is no danger of slipping, and a much larger pulley can be used upon the main shaft.

The Raising and Stop Levers are both convenient to the hand of the operator when he stands in front of the machine. The machine is also provided with an Adjustable Automatic Stop, which can be set to stop the Saw at any desired depth, or after the work has been cut completely off, and is instantaneous in its action, being connected with a clutch upon the main driving pulley which locks or disengages it with the crank shaft of the machine.

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The Saw Frame runs in a guide at its back, which, in turn, slides up and down upon two perpendicular guide rods, and the traveling motion is conveyed to it by a horizontal guide which runs parallel to the blade of the Saw. Particular attention is called to the fact that the saw blade always runs parallel to the bottom of the Vise. This feature will prove very valuable when the operator desires to saw a slot of any desired depth.

The Vise will take in work $4\frac{1}{2} \times 4\frac{1}{2}$ inches, and is operated by a handled screw, as shown in the cut. The bed of the Vise extends beyond the jaws, another feature which will at once commend itself.

The machine is thoroughly well made and practical in all its workings.

The Frame is made to take either 10 or 12 inch Hack-Saw Blades, although we regularly furnish one dozen 12-inch Blades with each machine.

Price, each (ALPHA) \$30.00

Net weight, 150 pounds. Weight, boxed for export, 210 pounds.
Measurements, 45 x 25 x 19 inches.

Butchers' 50-Foot Saw Coils



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The manner in which these Blades are put up, as shown in the illustration above, cannot fail to commend itself to every dealer in these tools. Instead of being obliged to carry a dozen different lengths in stock, he can carry these coils, and cut off any length desired, always sure of being able to furnish just the right length.

While experience from actual use will better demonstrate their working value, we wish to have it distinctly understood that they are warranted to give satisfaction. They are made from the finest quality of spring steel, tempered, ground, and polished. They are filed, set, and re-filed after setting, and consequently ready for immediate use.

They are made with teeth as specified below, correctly shaped to insure their free cutting. They can be re-filed, but it is hardly profitable, considering the first cost.

No. 310.	50 feet, $\frac{1}{2}$ inch wide, 14 teeth.	(VENOM)	\$4.50
No. 311. (old No. A)	50 feet, $\frac{5}{8}$ inch wide, 11 teeth.	(VERGIS)	4.50
No. 312. (old No. A1)	50 feet, $\frac{3}{4}$ inch wide, 11 teeth.	(VENNER)	5.00
No. 313. (old No. A2)	50 feet, 1 inch wide, 11 teeth.	(VELLER)	6.50
No. 314. (old No. B)	50 feet, $1\frac{1}{4}$ inch wide, 11 teeth.	(VELLUM)	7.50

NOTE.—For a Saw Punch suitable to punch these or any other similar Saw Blades, see page 187.

Butchers' 25-Foot Saw Coils



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The increasing popularity of having Butchers' Saws put up in coils has extended to the user, and butchers are now ordering them in this way. This necessitates the furnishing of shorter lengths, as 50 feet is more than some users wish to purchase; we are therefore offering at this time a complete line of 25-foot coils, as listed below.

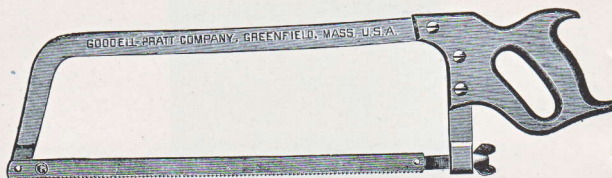
These coils are of the same high quality as those shown and described on the preceding page, differing in length only.

They are made from the very finest quality of spring steel, tempered, ground, and polished. They are filed, set, and re-filed after setting, leaving them sharp and ready for use.

No. 250.	25 feet, $\frac{1}{2}$ inch wide, 14 teeth to the inch.....	(VALID)	\$2.25
No. 251.	25 feet, $\frac{3}{8}$ inch wide, 11 teeth to the inch.....	(VALENCE)	2.25
No. 252.	25 feet, $\frac{3}{4}$ inch wide, 11 teeth to the inch.....	(VALIANT)	2.50
No. 253.	25 feet, 1 inch wide, 11 teeth to the inch.....	(VALISE)	3.25
No. 254.	25 feet, $1\frac{1}{4}$ inch wide, 11 teeth to the inch.....	(VALET)	3.75

Butchers' Saw Frames

No. 75



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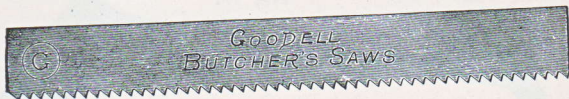
These Frames are exceptionally well made and nicely finished. Not only are they attractive in appearance, but they will be popular with the user because of their balance; to use a common expression, they hang well. The main part of the Frame is made of polished steel, the handle is well shaped and well finished.

Each Frame is equipped with one of our very best polished and tempered Butchers' Saw Blades.

	Per Dozen
14 inch..... (JAMB)	\$11.00
16 inch..... (JAME)	12.00
18 inch..... (JARL)	13.00
20 inch..... (JARD)	14.00
22 inch..... (JASTE)	15.00
24 inch..... (JAMS)	16.00
26 inch..... (JONT)	17.00

Packed one third dozen in a box.

Butchers' Saw Blades



These Blades are made from the finest quality of spring steel, tempered, ground, and polished. They have 11 teeth to the inch, filed, set, and re-filed after setting. We are offering them in four widths, $\frac{5}{8}$ inch, $\frac{3}{4}$ inch, 1 inch, and $1\frac{1}{4}$ inches. These Blades are not punched; for a Saw Punch suitable for this work see page 187.

Length	Per Dozen $\frac{5}{8}$ inch wide	Per Dozen $\frac{3}{4}$ inch wide	Per Dozen 1 inch wide	Per Dozen $1\frac{1}{4}$ inches wide
12 inches (DUCK)	\$1.25	(DIRI) \$1.40	(IRICK) \$1.65	(IRIS) \$1.85
14 inches (DRAKE)	1.45	(DRIBE) 1.60	(IBAK) 1.90	(IBEX) 2.15
16 inches (DOE)	1.65	(DONG) 1.80	(INGO) 2.20	(INGLE) 2.45
18 inches (DOCKET)	1.85	(DOKIN) 2.05	(INKET) 2.45	(INDIAN) 2.75
20 inches (DRAIN)	2.00	(DRYCE) 2.20	(ICYIN) 2.75	(ICYCLE) 3.00
22 inches (DAMPER)	2.20	(DAMUN) 2.45	(IMMER) 3.00	(IMMUNE) 3.30
24 inches (DAGGER)	2.40	(DAGIN) 2.65	(INTGE) 3.30	(INTACT) 3.60
26 inches (DEAT)	2.60	(DEVEN) 2.90	(INVAT) 3.60	(INVENT) 3.90
28 inches (DRUM)	2.80	(DRIMO) 3.10	(IMPUM) 3.80	(IMPOSE) 4.20

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Butchers' Saw Blades

No. 71

Black Finish

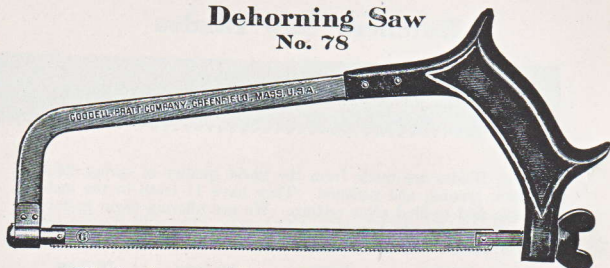


These Blades are made from a good quality of steel, tempered, but not polished. The teeth are filed, set, and re-filed, and the holes are punched. These Blades can be re-sharpened, and are offered to meet the demand for a Blade of moderate price.

	Per Dozen
14 inch.....	(HARD) \$1.40
16 inch.....	(HERD) 1.40
18 inch.....	(HIRD) 1.50
20 inch.....	(HORD) 1.50
22 inch.....	(HURD) 1.70
24 inch.....	(HASTE) 1.70
26 inch.....	(HELMET) 1.80

Packed six dozen in a box.

Dehorning Saw No. 78



This Saw has a steel Frame, white-nickel finish, an iron Handle, japanned, and is furnished complete with a 10-inch Blade.

Price, per dozen.....(PACER) \$5.00

Packed one in a box, $14\frac{3}{4} \times 6\frac{1}{2} \times 1\frac{1}{4}$ inches.

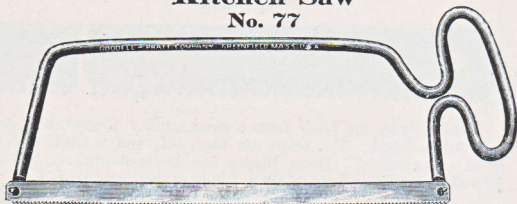
Weight, $1\frac{7}{8}$ pounds.

PAGE

Dehorning Saw Blades

186 Special 10-inch Blades, suitable for above frames, per dozen.....(PICER) \$0.85

Kitchen Saw No. 77



The Frame of this Saw is made of $\frac{5}{16}$ -inch steel wire, nickel plated; the Blade is 12 inches long by $\frac{5}{8}$ inch wide, and is made from the finest saw steel obtainable; it is tempered, ground, and polished; the teeth are cut, filed, set, and re-filed after setting.

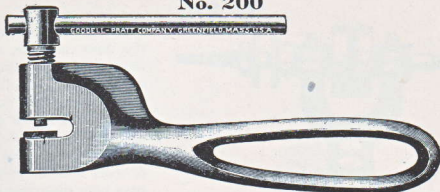
Price, per dozen.....(ULSTER) \$3.00

Packed one dozen in a box, $15\frac{1}{2} \times 6\frac{1}{2} \times 4\frac{1}{2}$ inches.

Weight, $8\frac{1}{2}$ pounds.

Saw Punch

No. 200



The punching of the necessary holes in Butchers' Saws has been the source of much annoyance to users of, and dealers in, this article. None of the better class of Butchers' Saw Blades are punched when they leave the factory. There is so much variation in the various styles of Frames of apparently the same length that it would be impossible to do it and have them come right. This little device suggested itself and came into existence because of the above condition, and needs only to be seen to be appreciated.

The Frame is made of malleable iron, nickel plated. The Screw and Cross-bar are made of steel, nicely finished. The Die and Punch are made from the finest quality of tool steel, carefully tempered.

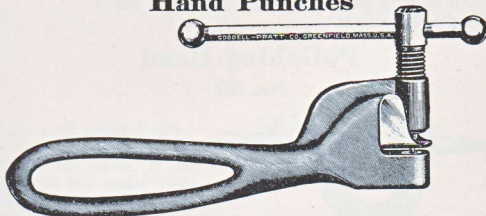
Price, per dozen.....(SANDLE) \$5.00

Packed one in a box, $6\frac{1}{4} \times 2\frac{1}{2} \times \frac{3}{4}$ inch. Weight; 9 ounces

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Hand Punches



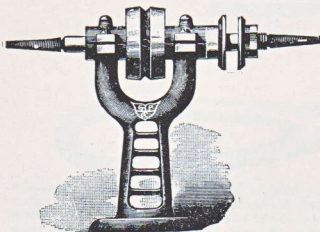
This attractive little Hand Punch has a Malleable Iron Frame, Tool Steel Punches and Dies, and Steel Stripper, so placed that work in excess of the capacity of the Punch cannot readily be inserted. The Frame is finished in white nickel, all steel parts are polished. It is made in four sizes as below listed.

		Per Dozen
No. 284.	Size $\frac{1}{16}$ inch.....(SAKE)	\$7.00
No. 285.	Size $\frac{3}{32}$ inch.....(SAMPSON)	7.00
No. 286.	Size $\frac{1}{8}$ inch.....(SANDY)	7.00
No. 287.	Size $\frac{5}{32}$ inch.....(SANSKRIT)	7.00

Packed one in a box.

Polishing Head

No. 21



In the construction of this little machine, as in those of similar style described on the following pages, it has been our endeavor to carry out as far as possible the ideas of various users of this class of tools, and the machines have been constructed with the view of being sold at a moderate price, and at the same time embodying good value.

No. 21, shown above, has a Solid Iron Frame 6 inches in height; Steel Spindle $\frac{3}{4}$ inch in diameter and 8 inches long. The Boxes are adjustable; Screws and Caps are of brass, and it is finished in japan. The Taper Screws on each end are carefully threaded. The distance between the flanges admits of placing therein a wheel $\frac{3}{4}$ inch in thickness. The Pulley is grooved for a $\frac{1}{4}$ -inch round belt, and is $1\frac{1}{8}$ inches in diameter, $\frac{3}{4}$ -inch face.

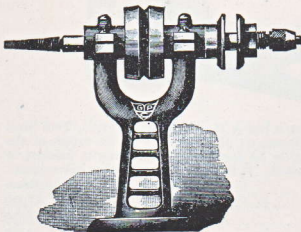
Price, each.....(MARSH) \$1.50

Each machine packed in a box, $9\frac{1}{2}$ x $7\frac{3}{8}$ x 3 inches.

Weight, $2\frac{1}{2}$ pounds.

Polishing Head

No. 23



This Polishing Head will be found to be identical with the No. 21, shown and described above, except that this one is fitted with a Three-jawed Chuck, capacity 0 to $\frac{5}{32}$ inch. This desirable feature will commend itself to all users of these tools, as their ability to do drilling adds materially to their usefulness.

Price, each.....(MURL) \$2.50

Each machine packed in a box, $9\frac{1}{2}$ x $7\frac{3}{8}$ x 3 inches.

Weight, $2\frac{1}{2}$ pounds.

Polishing Head

No. 22

This Polishing Head, while constructed similar to the ones shown on the preceding page, is more solid, consequently heavier, and will undoubtedly give better satisfaction for continued use.

It is slightly more than 6 inches in height, and is fitted with a $\frac{1}{2}$ -inch Spindle, 10 inches in length. The Boxes are adjustable; Screws and Caps are of brass. The distance between the flanges admits of taking in a wheel $\frac{1}{8}$ inch thick. The Taper Threads upon each end are carefully cut.

The diameter of the Pulley is $2\frac{1}{4}$ inches, $\frac{1}{8}$ -inch face, and it is grooved to take a $\frac{1}{4}$ -inch round belt.

Price, each. (MARL) \$2.50

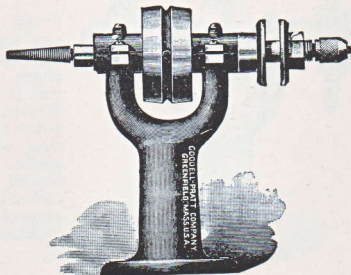
Each machine packed in a box, $12\frac{1}{2} \times 7\frac{1}{2} \times 3\frac{1}{2}$ inches.

Weight, 4 pounds.

Polishing Head

No. 24

This Polishing Head is identical with the No. 22, shown and described above, except that it is fitted with a Three-jawed Chuck, capacity 0 to $\frac{1}{4}$ inch. This desirable feature will commend itself to all users of these tools, as their ability to do drilling adds materially to their usefulness. This Chuck, holding up to $\frac{1}{4}$ inch, will at once be appreciated.



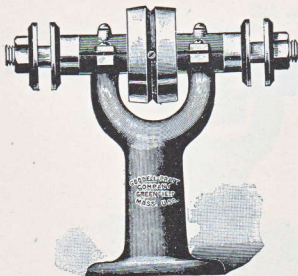
Price, each. (MOLE) \$4.00

Each machine packed in a box, $12\frac{1}{2} \times 7\frac{1}{2} \times 3\frac{1}{2}$ inches.

Weight, 4 pounds.

Grinding Head

No. 25



This Grinding Head is quite similar to the Polishing Heads described on the preceding pages; it has two sets of flanges for wheels, however, and the Taper-threaded Spindle is omitted.

The machine is a little more than 6 inches in height, and has a $\frac{1}{2}$ -inch Spindle; will take wheels $\frac{7}{8}$ inch thick. Boxes are adjustable, Screws and Caps are of brass; the Pulley is grooved for a $\frac{1}{4}$ -inch

round belt; flat belt $\frac{7}{8}$ inch wide can be used, however, if desired.

Price, each.....(MUDER) \$3.50

PAGE

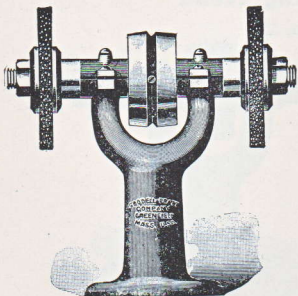
Each machine packed in a box, $8\frac{1}{2} \times 7\frac{1}{2} \times 3\frac{3}{4}$ inches.

Weight, $4\frac{3}{4}$ pounds.

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Grinding Head

No. 25 $\frac{1}{2}$



This machine is in every way identical with the No. 25, shown and described above, with the exception that it has two solid Emery Wheels, 4 inches in diameter, $\frac{1}{2}$ -inch face, furnished with it; these wheels are of different grades, and are suitable for general work, such as would naturally come within the scope of a small Bench Grinder of this character.

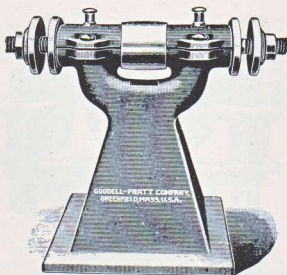
Price, each.....(MULDER) \$5.00

Each packed in a box, $8\frac{1}{2} \times 7\frac{1}{2} \times 3\frac{3}{4}$ inches.

Weight, complete, 6 pounds.

Grinding Head

No. 26



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This machine is somewhat heavier than any of the preceding styles; a good idea of its general outline is conveyed by the cut. It is 7 inches high, and is equipped with a Spindle 9 inches long; the diameter of the Spindle in the bearing is $\frac{3}{4}$ inch, between flanges where wheel runs, $\frac{1}{2}$ inch; it will take wheels $\frac{3}{4}$ of an inch thick and 8 inches in diameter. We would, however, recommend wheels 6 inches by $\frac{1}{2}$ inch for use in connection with it. It is equipped with patent Oil Cups, the nuts are finished and case hardened, and the whole machine is in every way thoroughly practical for use up to its capacity. We desire to call particular attention to the shape of the base, which insures great rigidity. Width of Pulley, $1\frac{3}{8}$ inches.

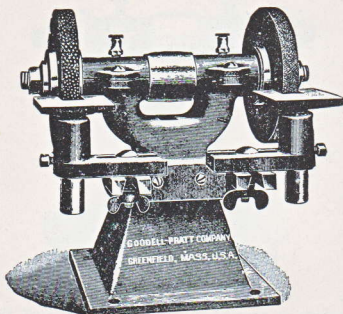
Price, each. (MOOSE) \$6.00

Each machine packed in a wooden box, $12\frac{3}{4}$ x 9 x $7\frac{1}{2}$ inches.

Weight, 13 pounds.

Grinding Head

No. 26 $\frac{1}{2}$



No Emery Wheels Furnished with this Machine

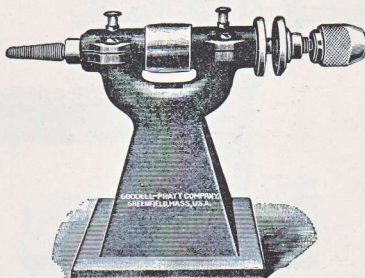
This machine is in every way identical with the No. 26, shown and described on page 191, except that it is supplied with the additional equipment of adjustable and detachable Work Rests, as shown in the cut. To show the exact position of these very plainly, we have shown the machine as it would appear with wheels in place, but we desire to call particular attention to the fact that the list price, as noted, does not include Emery Wheels.

Price, each.....(MOUSE) \$8.00

Each machine packed in a wooden box, 12 $\frac{3}{4}$ x 9 x 7 $\frac{1}{4}$ inches.
Weight, 15 pounds.

Polishing Head

No. 27



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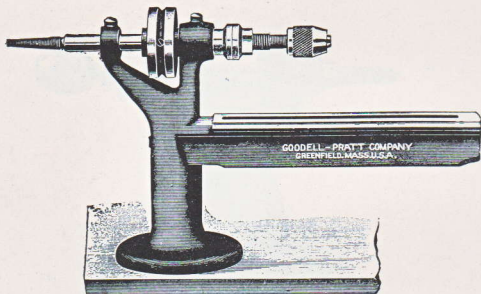
This machine is of the same general construction as the No. 26 shown and described on page 191; as shown in the cut, however, it is equipped with a regular Polishing Head Spindle, having a Taper Thread on one end and Flanges on the other, in addition to which it has a Three-jawed Chuck, capacity 0 to $\frac{1}{4}$ inch.

Price, each.....(MANGER) \$8.00

Packed one in a wooden box, $12\frac{3}{4} \times 9 \times 7\frac{1}{4}$ inches.
Weight, 13 pounds.

Polishing Head

No. 28



PAGE

194

This style of base will at once be appreciated, as it enables the operator to greatly increase the usefulness of his machine by adjusting any jigs or attachments he may desire for doing his own particular class of work.

This machine is fitted with a $\frac{1}{2}$ -inch Spindle, and will take a wheel $\frac{7}{8}$ inch by 4 inches. The Pulley is $2\frac{1}{4}$ inches; Chuck, Three-jawed, capacity 0 to $\frac{1}{4}$ inch; Base is japanned.

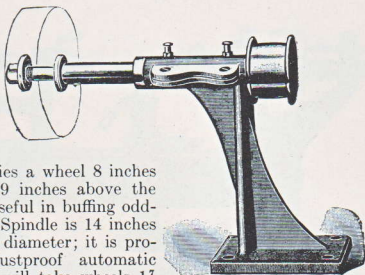
Price, each. (MANSE) \$4.50

Packed one in a box, 13 x 8 x $4\frac{1}{4}$ inches.

Weight, $8\frac{1}{2}$ pounds.

Polishing Head

No. 31



This machine carries a wheel 8 inches from the base and 9 inches above the bench, and is very useful in buffing odd-shaped pieces. The Spindle is 14 inches long and an inch in diameter; it is provided with two dustproof automatic closing Oil Cups; it will take wheels $1\frac{7}{8}$ inches thick with $\frac{1}{2}$ -inch hole. Pulley, $2\frac{1}{2} \times 1\frac{5}{8}$ inches.

Price, each.....(OFFSET) \$5.00

Packed one in a wooden box, $15\frac{1}{2} \times 11 \times 7\frac{1}{2}$ inches.

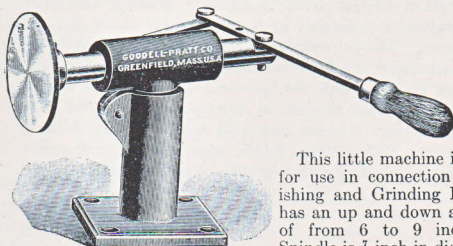
Weight, 21 pounds.

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195

Polishing Head Tail Stock

No. 42



This little machine is intended for use in connection with Polishing and Grinding Heads and has an up and down adjustment of from 6 to 9 inches. The Spindle is $\frac{7}{8}$ inch in diameter and 8 inches long. The Lever Arm is adjustable to two different throws.

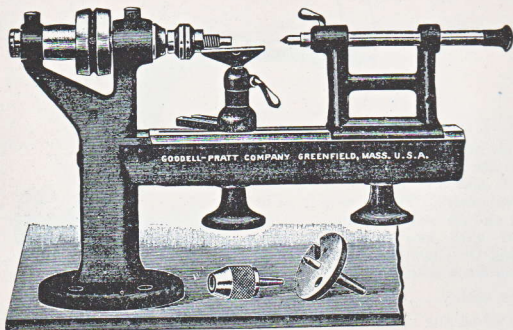
Price, each.....(PALM) \$4.00

Packed one in a box, $13\frac{1}{2} \times 6\frac{1}{2} \times 4\frac{1}{2}$ inches.

Weight, $8\frac{1}{2}$ pounds.

Polishing Lathe

No. 29



PAGE

196

This Polishing Lathe, complete with Tail Stock, Tee Rest, Face Plate, Saw Arbor, and Three-jawed Chuck, capacity 0 to $\frac{5}{32}$ inch, admits of a large variety of polishing, grinding, and other kindred operations not possible upon the ordinary styles of plain Polishing Heads. The cut cannot fail to convey a good idea of its general characteristics; it is furnished complete with the attachments, as shown, the Bed is milled, the Spindle is hollow, and it will be found a very useful little machine in many places. The Bed is 12 inches long; it swings 5 inches and is $3\frac{1}{2}$ inches extreme distance between centers. Pulley Steps, $\frac{3}{4}$ inch wide and $1\frac{1}{8}$ inch and 1 inch in diameter; the large step is grooved for round belt.

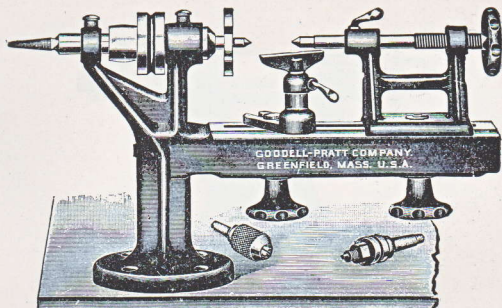
Price, each.....(POLATH) \$7.50

Packed one in a wooden box, $14\frac{1}{2} \times 9\frac{1}{2} \times 5\frac{1}{2}$ inches.

Weight, 14 pounds.

Polishing Lathe

No. 29 $\frac{1}{2}$



PAGE

197

This Polishing Lathe is provided with a Screw Tail Stock and a taper hole in both ends of the Live Spindle, and is provided with a Special Spindle for carrying Buff Wheels; in every other particular it is identical with the lathe shown and described on page 196.

Furnished complete with Tail Stock, Tee Rest, Face Plate, Saw Arbor, Taper-threaded Polishing Spindle, and Three-jawed Chuck, capacity 0 to $\frac{5}{32}$ inch.

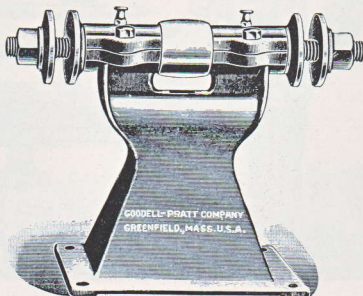
Price, each..... (POTENT) \$10.00

Each machine packed in a wooden box, 12 $\frac{3}{4}$ x 9 x 7 $\frac{1}{4}$ inches.

Gross weight, 14 pounds. Net weight, 10 pounds.

Grinding Head

No. 38



PAGE

198

This machine is of the same style as the No. 26, shown on page 191, but is larger and heavier. It is 8 inches high, and the Spindle is $12\frac{1}{2}$ inches long. The diameter of the Spindle in the bearing is 1 inch; between flanges where the wheel runs it is $\frac{3}{4}$ inch; it will take wheels 8 inches in diameter and 1 inch thick. The Pulley is 2 inches in diameter and $1\frac{1}{2}$ -inch face.

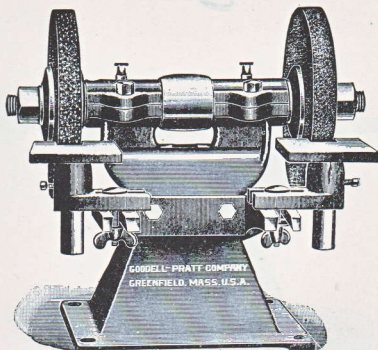
Price, each..... (MARGE) \$8.00

Each machine packed in a box, $17\frac{1}{4} \times 11\frac{1}{2} \times 9$ inches.

Gross weight, 26 pounds. Net weight, 21 pounds.

Grinding Head

No. 40



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199

No Emery Wheels Furnished with this Machine

This machine is in every way identical with the No. 38, shown and described on the preceding page, except that it is supplied with the additional equipment of adjustable and detachable Work Rests, as shown in the cut. To show the position of these very plainly, we have shown the machine as it would appear with wheels in place, but we desire to call particular attention to the fact that the list price, as noted, does not include Emery Wheels.

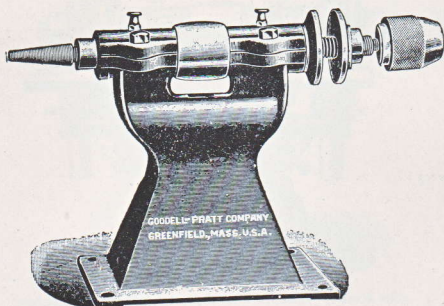
Price, each.....(MOTH) \$10.00

Each machine packed in a box, $17\frac{1}{4} \times 11\frac{1}{2} \times 9$ inches.

Gross weight, 29 pounds. Net weight, 24 pounds.

Polishing Head

No. 43



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200

This machine is of the same general construction as the No. 38 described on page 198; as shown in the cut, however, it is furnished with a regular Polishing Head Spindle, having a Taper Thread on one end and Flanges on the other, in addition to which it is furnished with a Three-jawed Chuck, capacity 0 to $\frac{3}{8}$ inch.

Price, each..... (MANE) \$10.00

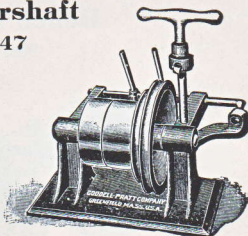
Each machine packed in a box, $17\frac{1}{4} \times 11\frac{1}{2} \times 9$ inches.
Gross weight, 26 pounds. Net weight, 21 pounds.

Countershaft

No. 47

	Diameter
Shaft.....	$\frac{1}{2}$ inch.
Loose Pulley.....	3 inch.
Tight Pulley.....	3 inch.
1st Step.....	$3\frac{1}{2}$ inch.
2d Step.....	$4\frac{1}{2}$ inch.
Base Plate, 4 inches by 8 inches.	

Price, each.....(PANSY) \$3.50



Each Countershaft packed in a box, $10 \times 7\frac{1}{4} \times 7\frac{1}{2}$ inches.

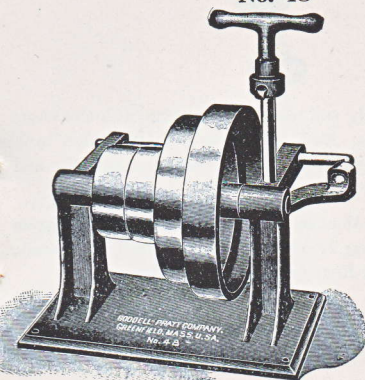
Weight, $11\frac{1}{2}$ pounds.

Countershaft

No. 48

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201



	Diameter
Shaft.....	$\frac{1}{2}$ inch.
Loose Pulley..	3 inch.
Tight Pulley..	3 inch.
1st Step.....	5 inch.
2d Step.....	6 inch.

Width Loose Pulley,
1 inch.

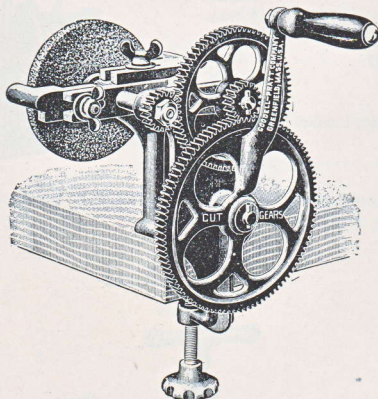
Base Plate, 5 inches
by 9 inches.

Price, each... \$4.50
(PANEL)

Each Countershaft packed in a wooden box, $11\frac{1}{2} \times 9\frac{1}{2} \times 9$ inches.
Weight, 18 pounds.

Bench Grinder

No. 115



PAGE

202

This is a thoroughly well made little machine, with Cut Gears and Reamed Bearings. Each part is fitted to the others by a skillful mechanic; so that the whole machine runs smoothly and quietly.

It carries a 4-inch Alundum Wheel with 1-inch face, running on a $\frac{1}{2}$ -inch Spindle, making 22 revolutions to every turn of the crank. It is fitted with Work Rests for both right and left hand.

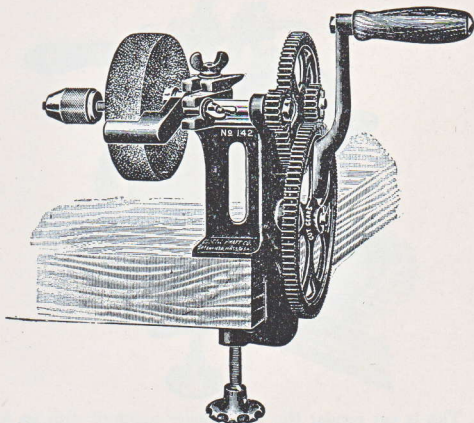
Price, each.....(DEIGN) \$4.50

Packed one in a box, $11\frac{1}{2} \times 8\frac{1}{2} \times 8\frac{1}{2}$ inches.

Weight, 13 pounds.

Bench Grinder with Drilling Attachment

No. 142



PAGE

203

This machine is identical with the No. 115, but is provided with a Three-jawed Chuck, capacity 0 to $\frac{1}{4}$ inch, on the end of the Wheel Spindle. This will often be found a very useful feature, as it will be possible with this to do small jobs of drilling with this machine. For specifications of the machine itself see preceding page.

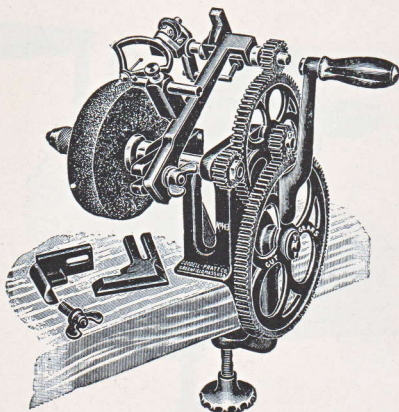
Price, each (DAMSEL) \$6.00

Packed one in a box, $11\frac{1}{2} \times 8\frac{1}{2} \times 8\frac{1}{2}$ inches.

Weight, 13 pounds.

Bench Grinder with Pin Pointing Attachment

No. 143



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204

This is our regular No. 142 Grinder equipped with an Attachment for pointing pins or small wire. A very good general idea of its features will be obtained from an inspection of the cut. It has a Screw Adjustment on the back side which will admit of its use with any size wheel, and, by the moving of the two Collars on the Spindle, it is possible to use the entire surface of a $\frac{3}{4}$ -inch Wheel.

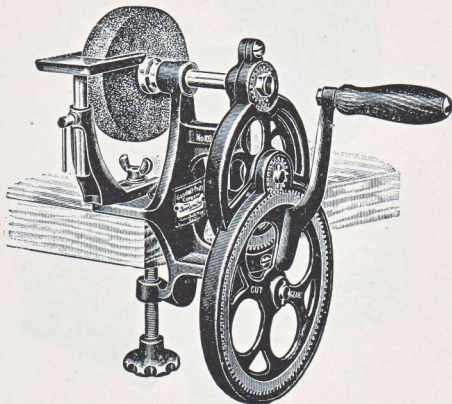
We would draw particular attention to the Back Rest with its Slotted Pin, which not only provides pressure for rapid work but insures accurate pointing of the wire.

Price, each (DAPPER) \$12.50

Packed one in a box, $11\frac{1}{2} \times 8\frac{1}{2} \times 8\frac{1}{2}$ inches,
Weight, 15 pounds.

Bench Grinder

No. 109



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205

This machine is of the same high class as the Grinders described upon the foregoing pages, but has a little different arrangement of the Gears, which it will be noted from the cut are inclosed by a very efficient Guard, protecting both the workman and the Gears.

It carries the same 4 x 1 inch Alundum Wheel, and, although provided with only one Work Rest, this is so arranged that it can be used from either side of the Wheel.

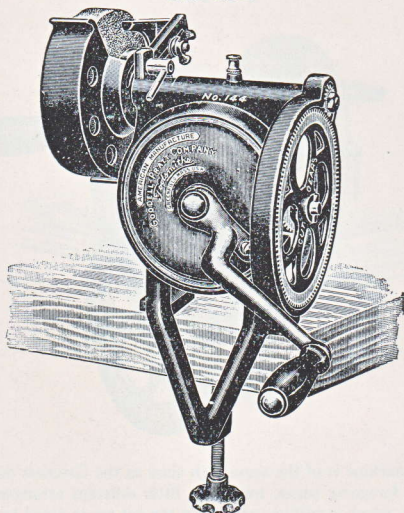
Price, each.....(DAMSON) \$5.50

Packed one in a box, $11\frac{1}{2} \times 8\frac{1}{2} \times 8\frac{1}{2}$ inches.

Weight, 14 pounds.

Bench Grinder

No. 144



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206

This machine is larger, heavier, and of more elaborate design than those shown on the preceding pages. It carries a 5 x 1 inch Alundum Wheel in a Half Guard, which may be used in different positions on the Wheel as desired.

The design of this machine is such that when two men are using it the man turning the crank is entirely out of the way of the Grinder. This feature in no way interferes with its use as a one-man machine.

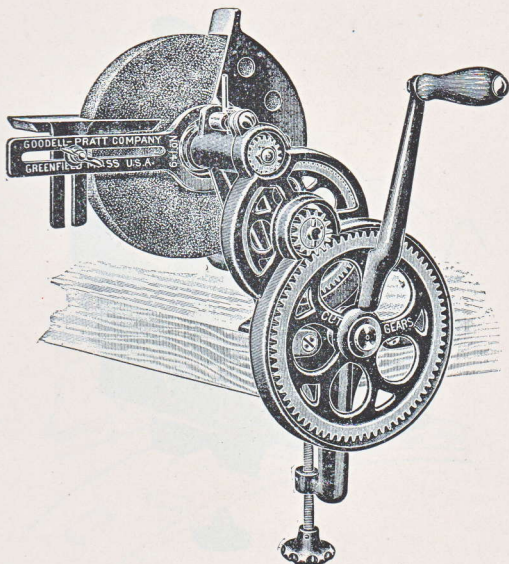
This machine is 7 inches high from the Bench to the Spindle, which is 9 inches long.

Price, each..... (DARNEL) \$9.00

Packed one in a box, $15\frac{1}{2} \times 11\frac{1}{2} \times 9$ inches.
Weight, $16\frac{1}{2}$ pounds.

Bench Grinder

No. 149



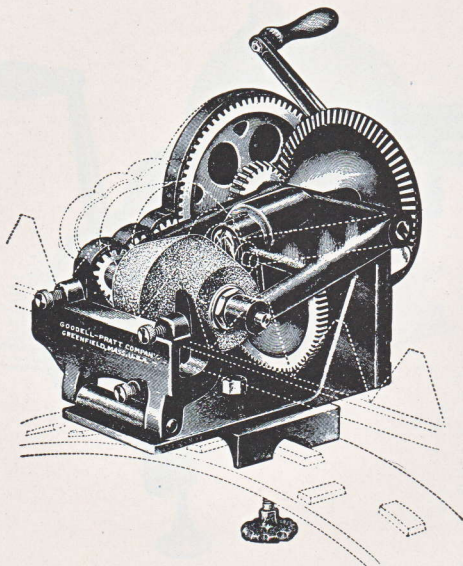
PAGE
207

This machine is much larger and heavier than the other machines of this class, and carries a $7 \times 1\frac{1}{4}$ inch Alundum Wheel. Its Cut Gears and all other parts are of correspondingly heavier construction. This will be found a very satisfactory and serviceable Grinder. The Half Guard and Work Rest are reversible and the Gearing is inclosed by a Guard. The cut will give a good idea of its design. The Spindle runs 6 inches above the bench.

Price, each.....(DAVIT) \$10.50

Packed one in a box, $15\frac{1}{2} \times 11\frac{1}{2} \times 9$ inches.
Weight, 19 pounds.

Sickle Grinder



PAGE

208

This cut shows Sickle Grinder No. 158, having One Alundum Wheel only, beveled as shown in cut.

Sickle Grinder No. 159 is equipped with Two Alundum Wheels, one beveled as shown in cut, and one straight wheel, $3\frac{1}{2}$ inches in diameter and $3\frac{1}{2}$ inches thick. For description, see opposite page.

Sickle Grinder

No. 158

The design, construction, and finish of this Sickle Grinder is of the same high order that was established and has been maintained on the various other styles of Grinding Machines which we manufacture. It is thoroughly mechanical in its construction, having Cut Gears (meaning gears cut from solid blanks), Steel Spindle, Reamed Bearings, and Oscillating Motion, which can be used or thrown out, as the operator desires. It has a Gear Guard, which incloses the chain of four gears most exposed; an adjustable Bar Holder with a Stop, which can be set to stop the bar at any desired point. It is provided with an extra Clamp Plate, by which the Grinder can be attached to the wheel of a mowing machine, which plate can be removed and the machine fastened to a bench at the operator's pleasure. The Crank Handle is 9 inches long, making a powerful mechanical machine, beautifully finished in enamel, made as a Grinding Machine should be made and not after the manner of an agricultural implement.

It is fitted with the very highest grade Alundum Wheel, $3\frac{1}{2}$ inches in diameter at the center, beveled to $2\frac{3}{8}$ inches in diameter at each end, and $3\frac{1}{2}$ inches long over all; of a grade and grit suitable for grinding mowing machine knives. The oscillating motion can be thrown out by throwing the lever at the back of the machine. The arrangement for holding the sickle bar is constructed with a view to having only the slightest pressure necessary when the sections are being ground. In fact, with numerous cutter bars, the weight of the bar lying against the wheel is all that is required.

Price, each, with bevel wheel only (DISDAIN) \$15.00

Packed one in a wooden box.

Net weight, 30 pounds.

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209

Sickle Grinder

No. 159

Same as above, but equipped with Two Alundum Wheels, one bevel, $3\frac{1}{2} \times 2\frac{3}{8} \times 3\frac{1}{2}$ inches, and one straight Alundum Wheel, $3\frac{1}{2} \times 3\frac{1}{2}$ inches.

Price, each (DISGUST) \$17.00

Packed one in a wooden box.

Net weight, 33 pounds.

Tool Grinder

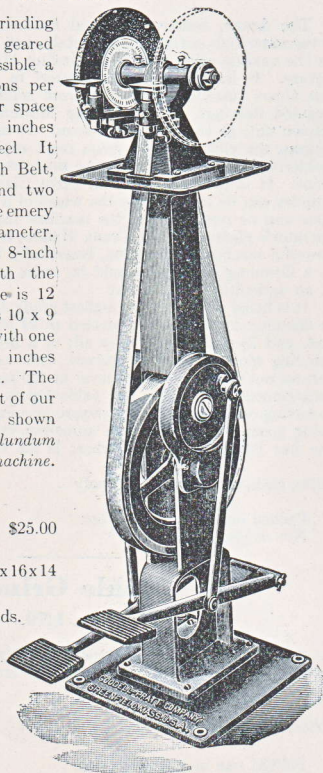
No. 118

A strong, powerful grinding machine, double treadle, geared three to one, making possible a speed of 3,000 revolutions per minute. It occupies floor space $18\frac{1}{4} \times 12$ inches and is 44 inches high to top of emery wheel. It is furnished with a $1\frac{1}{4}$ -inch Belt, has a Double Treadle and two sets of Cut Gears, will take emery wheels 10 inches in diameter. We however recommend 8-inch wheels as furnished with the machine. The floor plate is 12 inches square, the table is 10×9 inches. Fitted complete with one solid Alundum Wheel 8 inches in diameter, $\frac{3}{4}$ -inch face. The head itself is a counterpart of our No. 26 $\frac{1}{2}$ Emery Grinder shown on page 192. *One Alundum Wheel furnished with machine.* Belt also furnished.

Price, each (DELVE) \$25.00

Packed one in a box, $43\frac{1}{2} \times 16 \times 14$ inches.

Net weight, 109 pounds.



Tool Grinder

No. 119

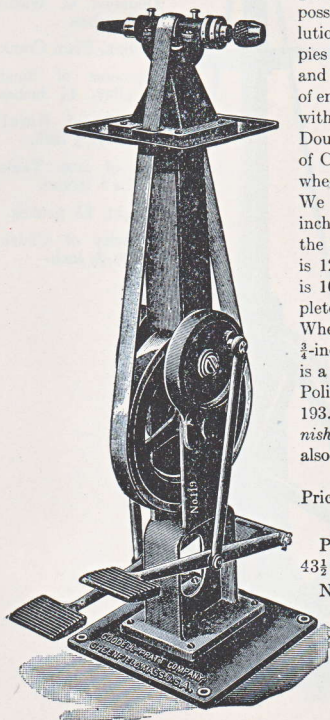
A strong, powerful grinding machine, double treadle, geared three to one, making possible a speed of 3,000 revolutions per minute. It occupies floor space $18\frac{1}{2}$ x 12 inches and is 44 inches high to top of emery wheel. It is furnished with a $1\frac{1}{4}$ -inch Belt, has a Double Treadle and two sets of Cut Gears; will take emery wheels 10 inches in diameter. We however recommend 8-inch wheels as furnished with the machine. The floor plate is 12 inches square, the table is 10 x 9 inches. Fitted complete with one solid Alundum Wheel 8 inches in diameter, $\frac{3}{4}$ -inch face. The head itself is a counterpart of our No. 27 Polishing Head shown on page 193. *One Alundum Wheel furnished with machine.* Belt also furnished.

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211

Price, each... (DELUGE) \$26.50

Packed one in a box,
 $43\frac{1}{2}$ x 16 x 14 inches.

Net weight, 108 pounds.



Foot Power Polishing Machine

No. 123

This useful combination of a Foot Power and No. 23 Polishing Head will prove a great convenience to any one desiring to install mechanism of this character, and have it free and clear of his workbench. The machine is complete in itself; it is provided with a Three-jawed Chuck, capacity 0 to $\frac{5}{8}$ inch. It is fitted with round belt, as shown in cut. It is finished in machine enamel, black and red. For dimensions, see opposite side of cut.

Dimensions

Height, 45 inches.

Diameter of Wheel, 20 inches.

Motion, Plain Crank.

Diameter of Small Pulley, $1\frac{7}{8}$ inches.

Width of Small Pulley, $\frac{3}{4}$ inch.

Size of Iron Table 10 x 5 inches.

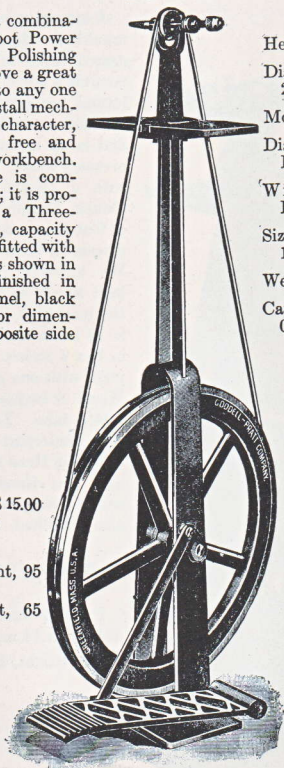
Weight, 65 pounds.

Capacity of Chuck, 0 to $\frac{5}{8}$ inch.

Price, each, \$ 15.00
(DASHER)

Gross weight, 95 pounds.

Net weight, 65 pounds.



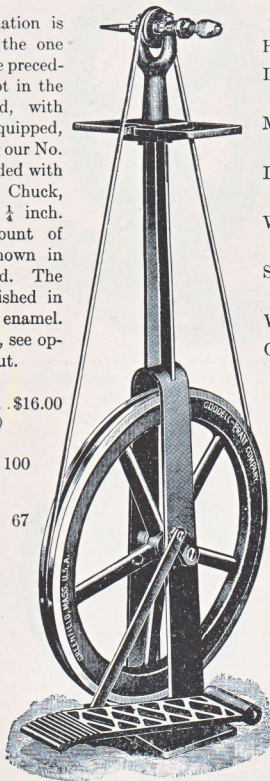
Foot Power Polishing Machine No. 124

This combination is identical with the one described on the preceding page, except in the Polishing Head, with which it is equipped, this Head being our No. 24. It is provided with a Three-jawed Chuck, capacity 0 to $\frac{1}{4}$ inch. Necessary amount of leather belt shown in cut is furnished. The machine is finished in black and red enamel. For dimensions, see opposite side of cut.

Price, each \$16.00
(DAISY)

Gross weight, 100
pounds.

Net weight, 67
pounds.



Dimensions

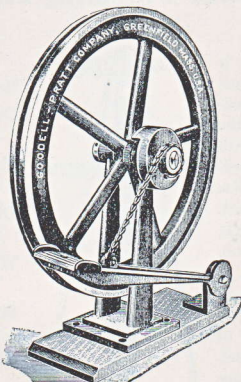
Height, 45 inches.
Diameter of Large Wheel, 20 inches.
Motion, Plain Crank.
Diameter of Small Pulley, $2\frac{1}{4}$ inches.
Width of Small Pulley, $\frac{7}{8}$ inch.
Size of Iron Table, 10 x 5 inches.
Weight, 67 pounds.
Capacity of Chuck, 0 to $\frac{1}{4}$ inch.

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213

Foot Power No. 35

This machine can never get on a "dead center," it is always ready to go ahead and the treadle always remains stationary when not being worked, while the wheel continues to revolve until its momentum has been expended. The machine as shown weighs 65 pounds, the face of the wheel is turned up and grooved, and while it cannot be considered the cheapest Foot Wheel on the market, we feel confident that it represents exceptional value in proportion to its cost.



Diameter of Wheel,
20 inches.

Width of Face, $1\frac{3}{8}$
inches.

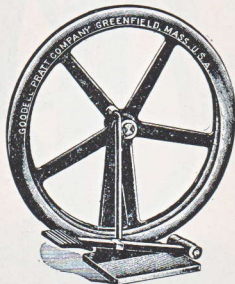
Width of Groove,
 $\frac{1}{8}$ inch.

For Round Belt, $\frac{1}{4}$
or $\frac{3}{8}$ inch.

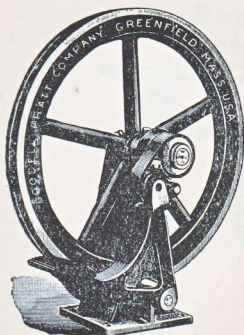
Price, each.....(FOOTPO) \$8.00
Packed one in a box. Weight, boxed, 80 pounds,

Foot Power No. 116

We have designed this little machine with the view of having a Foot Power of extremely moderate price. It has grooved face for round belt only. The wheel is $16\frac{1}{4}$ inches in diameter. The net weight of the machine is 25 pounds.



Price, each.....(FOOTHOLD) \$3.00
Packed one in a box.



Foot Power

No. 117

This machine is very compact as to floor space; has a leather belt pull, cannot get on dead center. The 20-inch wheel with turned face is grooved for round belt, but 1-inch flat belt may be used if desired.

Finished in black and red machine enamel.

Price, each . . . (FOOTMAN) \$9.00

Packed one in a box,
24½ x 21¼ x 9¾ inches.

Gross weight, 81 pounds.

Net weight, 66 pounds.

Geared Foot Power

No. 122

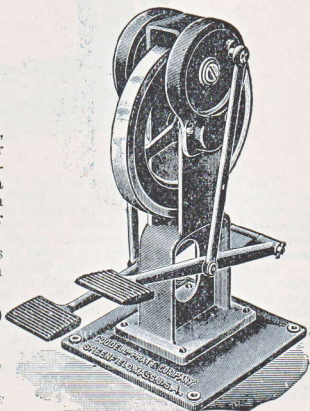
This is a double treadle, geared-drive Foot Power with a heavy 12-inch Balance Wheel, which has a turned face 1½ inches in diameter and is grooved for round belt.

The machine is 23 inches high and the gearing is in proportion of 3 to 1.

Price, each \$12.50
(FOOTFALL)

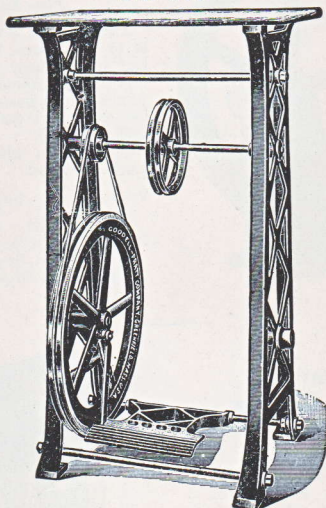
Packed one in a box,
28 x 14 x 12 inches.

Weight, boxed, 104
pounds.



Foot Power Table

No. 120



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216

This Power Table provides in itself a complete Foot Power equipment of Wheel, Treadle, Countershaft, and Bench, and is so arranged that almost any kind of a small machine can be attached to the Table and operated by power taken from the Countershaft below. No holes are cut in this Table, this being left to the purchaser; the operation is simple and will entail little trouble and assure his having these in just the desired spot.

The machine is 39 inches high; the Table part is 24 inches long and 14 inches wide; the Driving Wheel is 20 inches in diameter; the Receiving Wheel on the Countershaft is 3 inches and the Driving Wheel $8\frac{1}{4}$ inches in diameter. All Pulleys are grooved for round belt, but faces are turned and flat belts can be used if desired. All metal parts of the machine are attractively painted with machine enamel. The top of the Table is shellacked.

For convenience in shipping this machine is knocked down; its construction, however, is such that the assembling by the purchaser is a small matter.

Price, each..... (WABBLE) \$20.00

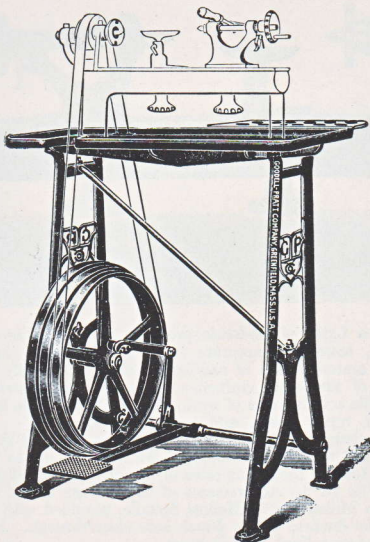
Belt shown in cut is furnished.

Crated, $42 \times 26\frac{1}{2} \times 21\frac{3}{4}$ inches. Boxed, $40\frac{1}{2} \times 22 \times 13\frac{1}{4}$ inches.

Gross weight, 150 pounds. Net weight, 115 pounds.

Foot Power Table

No. 121



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217

This Foot Power Table is designed especially for use in connection with our No. 125 Bench Lathe, shown and described on page 218. It is strong, well made, and nicely finished, constructed entirely of iron and steel, even to the Table top. It is provided with a Rim to prevent tools from rolling off. It has a special Tool Rack on the back side. The dimensions are as follows:

Height, 35 inches; width, 14 inches, exclusive of Tool Rack; length, 31 inches.

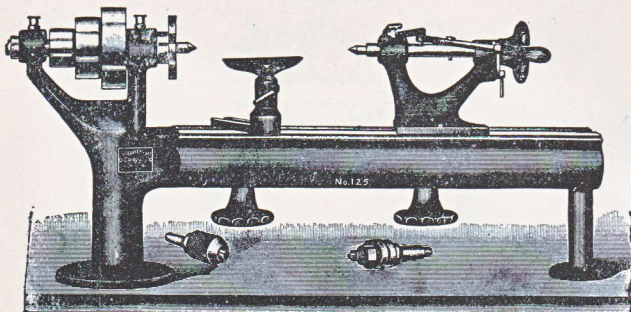
In Tool Rack there are 11 small and 12 large holes. Diameter of Cone Pulley, smallest Step, 18 inches; second and third Steps proportionate to the size of the pulley used on No. 125 Bench Lathe.

Price of Table only (WAFFLE) \$24.00

Crated, $38\frac{1}{2}$ x 33 x 23 inches. Boxed, $40\frac{1}{2}$ x 22 x $13\frac{1}{4}$ inches.
Weight, 200 pounds.

Amateur Bench Lathe

No. 125



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This is a Lathe of moderate price yet thoroughly serviceable; a practical, reasonably accurate Lathe substantially constructed from good materials and of excellent design, successfully meeting the needs of amateurs, craftsmen, designers, and experimenters. It will handle a wide range of work, making it applicable for use in laboratories, repair shops, and trade schools.

The construction and fitting of this Bench Lathe is done with great care and reasonable accuracy. We do not claim to turn out a precision tool for the selling price of this one; but it will and does practically fill all the requirements of the average user.

It has a Milled Bed; a Hollow Spindle, provided with a No. 1 Morse Taper Socket, with a $\frac{3}{8}$ -inch hole clear through. Has both Screw and Lever Feed in Tail Stock.

Its total length is 25 inches, with an extreme distance of 12 inches between centers.

Swing, 7 inches.

Diameter of Pulley Steps, $1\frac{1}{2}$, $2\frac{1}{2}$, and $3\frac{1}{2}$ inches.

Furnished complete with Tee Rest, Slotted Face Plate, Saw Arbor, and Three-jawed Chuck, with capacity 0 to $\frac{1}{4}$ inch.

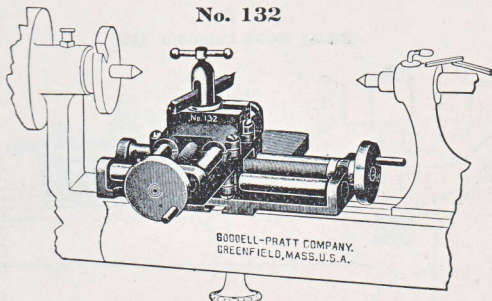
No Countershaft furnished with this machine.

Price, each.....(PADDLE) \$20.00

Gross weight, 50 pounds. Net weight, 32 pounds.

Slide Rest

No. 132



We have designed this Slide Rest for use with our No. 125 Bench Lathe, and it is specially fitted for that machine. We do not claim for it absolute accuracy; it would not be possible to furnish a precision tool at the price charged. We do pretend that it is a strong, well-made device, well suited to the Lathe above referred to. It has a longitudinal motion of $3\frac{3}{8}$ inches, a cross motion of $2\frac{1}{4}$ inches. It is made to hold lathe tools $\frac{1}{4}$ by $\frac{1}{4}$, and weighs, net, $6\frac{1}{2}$ pounds.

Price, each (PAWPAW) \$12.00

PAGE

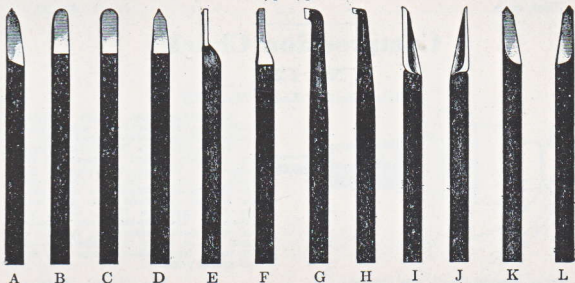
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Lathe Tools

No. 126

For use with No. 132 Slide Rest

Size $\frac{1}{4}$ x $\frac{1}{4}$ inch

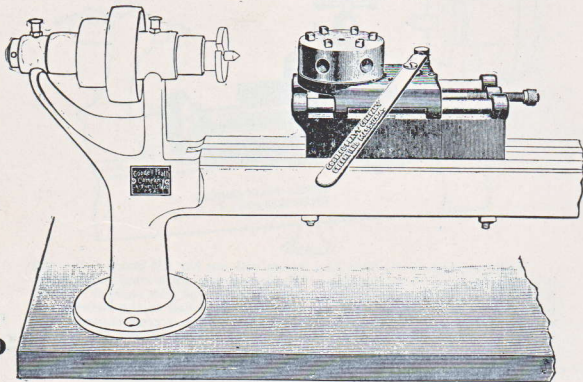


Price, each (PANDA) \$0.50

Turret Attachment

No. 128

Fitting Bench Lathe No. 125



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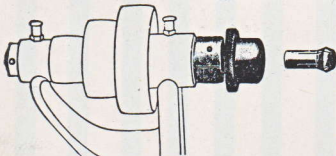
This Attachment has a turret 3 inches in diameter, provided with six holes $\frac{1}{2}$ inch in diameter. It has a travel of $2\frac{3}{4}$ inches, but will shift and throw automatically only when cuts $1\frac{1}{2}$ inches or less are made. In order to have holes drilled and aligned the TURRET MUST BE ORDERED with the Lathe, for each turret must be fitted to the Lathe upon which it is to be used. When turrets are furnished separately holes will be left undersize and the purchaser must re-bore them on the Lathe to which the turret is to be fitted.

Price, each.....(YAM) \$30.00

Compression Chuck

No. 129

Fitting Bench Lathe No. 125



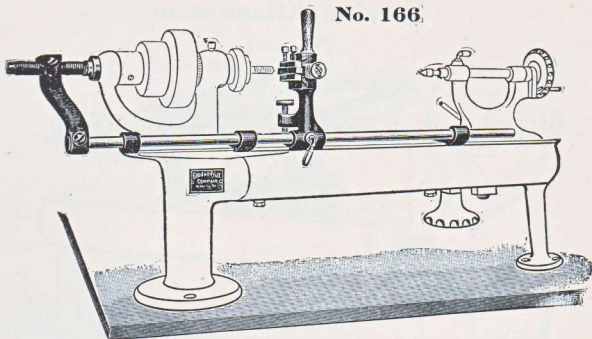
For certain classes of work performed with a turret attachment, and in many other instances where round rods are to be machined, no Bench Lathe would be complete without equipment of this character. We have endeavored to provide one for our No. 125 which would be thoroughly practical and which could be sold at a moderate price. It is made in three parts, a Collar, Collet, and Bushing. The Bushings are furnished in the following sizes: $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, and $\frac{3}{8}$; no larger or smaller sizes can be used. Intermediate sizes to order only at special prices.

Price, complete with one Bushing.....(YARD) \$5.00
Any regular size Bushing listed above..... 2.00

Goodell-Pratt Company

Screw Cutting Attachment

No. 166



We are prepared to build to order a Screw Cutting Attachment for our No. 125 Bench Lathe, as shown in cut; this, however, must be ordered at the same time Lathe is ordered and be fitted to it.

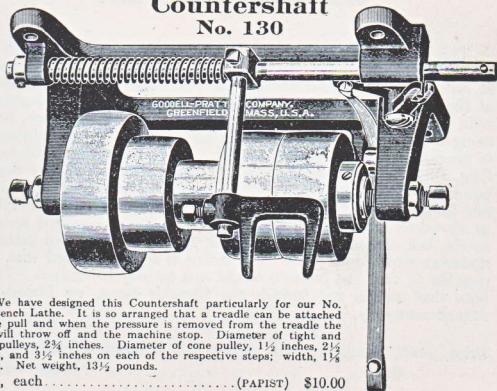
No. 166. Price, each, with one Master Screw (YEN) \$25.00
 Extra Master Screws and Nuts (regular threads), each 2.50

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Countershaft

No. 130

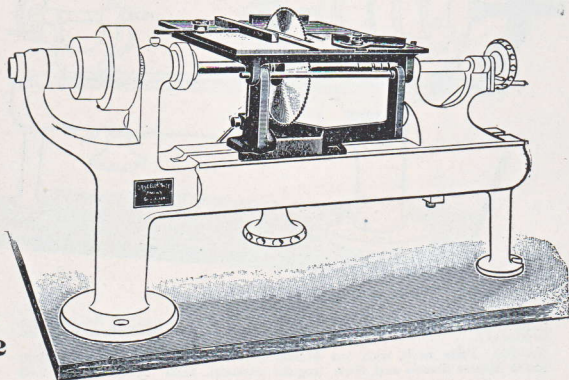


We have designed this Countershaft particularly for our No. 125 Bench Lathe. It is so arranged that a treadle can be attached to the pull and when the pressure is removed from the treadle the belt will throw off and the machine stop. Diameter of tight and loose pulleys, 23¼ inches. Diameter of cone pulley, 1½ inches, 2½ inches, and 3½ inches on each of the respective steps; width, 1½ inches. Net weight, 13½ pounds.

Price, each (PAIST) \$10.00

Sawing Attachment

No. 194



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We do not Furnish Circular Saws

This Circular Saw Attachment, for use in connection with our No. 125 Bench Lathe, consists of one Saw Arbor, $\frac{3}{8}$ inch in diameter at one end, and with a Center for receiving the tail-stock center at the other end; it can be held either in a $\frac{3}{8}$ -inch Collet furnished with a Compression Chuck, in the Jaws of a Scroll Chuck, or by using a Lathe Dog and Face Plate sent out with the machine. It is provided with an adjustable Table $8\frac{3}{4}$ inches wide by $9\frac{1}{4}$ inches long, which can be raised or lowered and fastened at any desired point. It has two Guide Slots for cross-cutting and one Guide Slot for sawing to length or splitting, with adjustable Stops or Guides, as shown in cut. The main frame part can be clamped securely to the bed of the Lathe and is best adapted for saws 5 inches in diameter with $\frac{3}{4}$ -inch hole. The Arbor is so constructed that it is possible to vary the position of the saw as may be desired. Please note that we do not furnish the Circular Saws, we furnish the Attachment only.

Price, each, complete with Arbor but without Circular

Saw.....(PUSH) \$10.00

Goodell-Pratt Company

Attachments for No. 125 Bench Lathe

Square Center No. 137



Made of Tool Steel for light turning of wood or steel. Shank No. 1 Morse Taper. Price, \$0.50.

Wood Center No. 134



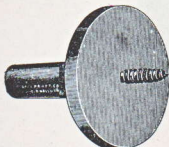
Diameter $\frac{3}{8}$ inch, for use in Tail Stock. Shank No. 0 Morse Taper. Price, \$0.50.

Spur Center No. 135



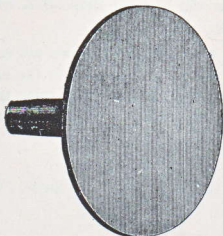
One inch in diameter for wood turning. Shank No. 1 Morse Taper. Price, \$1.00.

Screw Center Face Plate No. 136



Diameter, $1\frac{1}{2}$ inches. Screw projects $\frac{1}{2}$ inch. Shank No. 1 Morse Taper. Price, \$1.00.

Tail Stock Face Plate No. 133



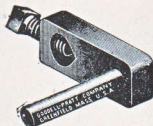
Diameter, 3 inches. Shank No. 0 Morse Taper. Price, \$0.50.

Interchangeable Centers and Shank No. 131



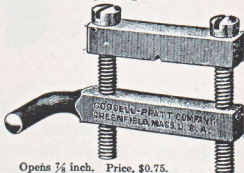
For use in Tail Stock. 1 Cone, 1 Cup, and 1 V Center, all $\frac{1}{4}$ inch outside diameter. One Shank No. 0 Morse Taper fitting all centers. Price, per set, \$1.50.

Lathe Dog No. 139



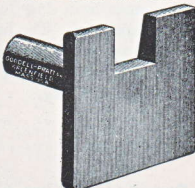
Capacity, $\frac{1}{8}$ to $\frac{3}{8}$ inch; $1\frac{1}{2}$ inches long, $\frac{7}{8}$ inch wide, and $\frac{1}{8}$ inch thick. Driving Pin, $\frac{1}{4}$ inch diameter, $1\frac{1}{2}$ inches long. Price, \$0.60.

Clamp Dog No. 127



Opens $\frac{3}{8}$ inch. Price, \$0.75.

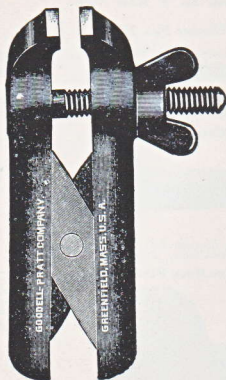
Table Rest No. 138



For use in Tool Rest. Two inches square. Shank, $\frac{1}{2}$ inch. Price, each, \$0.50.

Hand Vise

No. 96



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The making of this style of Hand Vise with a parallel jaw is something of a departure; while this form of construction adds considerable to its cost, the increase will be more than offset by the gain in its convenience and utility.

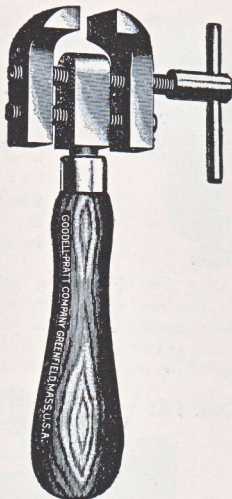
It is made from drop forgings, the faces of the jaws are scored and case hardened. The finish of the tool is black, with the exception of the edges of the jaws, which are polished. The faces of the jaws are $1\frac{3}{8}$ inches long, $\frac{3}{8}$ inch wide; jaws open $1\frac{3}{8}$ inches; whole tool is $4\frac{1}{2}$ inches long.

Price, each (OPEN) \$1.50

Packed one in a box, $5\frac{1}{4} \times 3 \times 1$ inch.

Weight, 13 ounces.

Hand Vises



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The construction of these Vises is unique in that they are provided with a double screw geared together, insuring parallel jaw faces up to their extreme capacity, making it possible to secure a firmer hold than could be accomplished by the use of a single screw.

The Jaws are made from drop forgings with faces scored; the socket, screws, and equalizing gears are all steel. The handle is polished hard wood and the finish of the metal parts varies in the two different styles listed below. We desire to call particular attention to the convenience of the sliding handle. The jaws open $1\frac{1}{2}$ inches and their faces are $1\frac{3}{8}$ x $\frac{3}{8}$ inch.

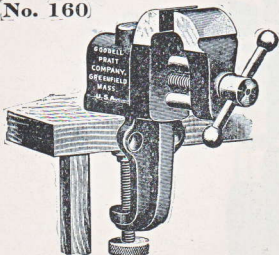
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|---------|------------------------------------------------|----------------|
| No. 97. | Full Polished and Nickel Plated with Hard Wood | |
| | Handle. Price, each..... | (OAKUM) \$2.00 |
| No. 98. | All Metal Parts Black Finish with Hard Wood | |
| | Handle. Price, each..... | (OFFER) 1.75 |

Packed one in a box, $9\frac{1}{4}$ x 5 x $1\frac{3}{4}$ inches.

Weight, $1\frac{1}{2}$ pounds.

Bench Vises

No. 160

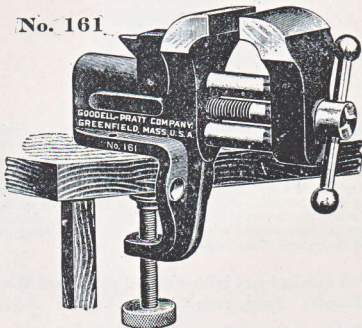


These little Bench Vises, while not differing in general appearance from other tools of this character which have for many years been on the market, are constructed with the belief that there is a demand for a little better construction than the majority of the small Bench Vises usually offered for sale.

We are making these in two sizes, with a 1-inch jaw and with a 2-inch jaw. The Vises are operated by a steel Screw and two steel Guide Rods, insuring rigidity and strength. They are of good design, well made, and well finished. A high grade of baking japan is used in place of the ordinary asphaltum paint usually employed.

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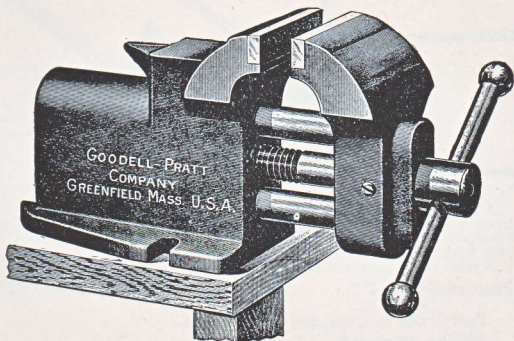
No. 161



- | | | |
|-----------------------------------------|----------|--------|
| No. 160. 1-inch Jaw. List, each..... | (JARGON) | \$1.00 |
| Packed one in a box. Weight, 1½ pounds. | | |
| No. 161. 2-inch Jaw. List, each..... | (JASPER) | 2.00 |
| Packed one in a box. Weight, 3½ pounds. | | |

2 $\frac{1}{2}$ inch Bench Vise

No. 168



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The popularity of our Bench Vises, heretofore only made in 1 $\frac{1}{2}$ and 2 inch sizes, has influenced us to add to the line something a little larger, and this No. 168 is the result. The form of construction employed saves considerable weight, and adds materially to the strength of the Vise. It has a steel Feed Screw and two steel Guide Rods $\frac{5}{8}$ inch in diameter. The Jaws of the Vise are steel-faced; the faces fastened in place with screws; all exposed steel parts are polished; the stationary and the sliding jaws are both attractively finished in enamel.

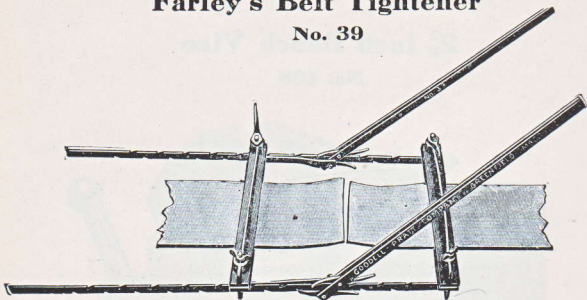
Price, each.....(JACKAL) \$4.00

Packed one in a box.

Net weight, 9 $\frac{1}{2}$ pounds.

Farley's Belt Tightener

No. 39



A strong, powerful, quick acting device for drawing belts together for the purpose of lacing. It eliminates all objectionable features, and combines in itself all desirable ones; it can be put into place in an instant; two or three throws of the levers, and you are ready for lacing.

It takes belt to and including 10½ inches.

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228 Price, each.....(BELTITE) \$7.50

Packed one in a box, 29½ x 5 x 5 inches.

Weight, 19 pounds.

Pin Vises

Chuck Patented August 13, 1895



Previous to the introduction of these tools a good Pin Vise was a scarce article, and it has been our aim to make these both strong, convenient, and practical.

The Chucks are Three-jawed, and will grip the work firmly. They are well finished and nickel plated.

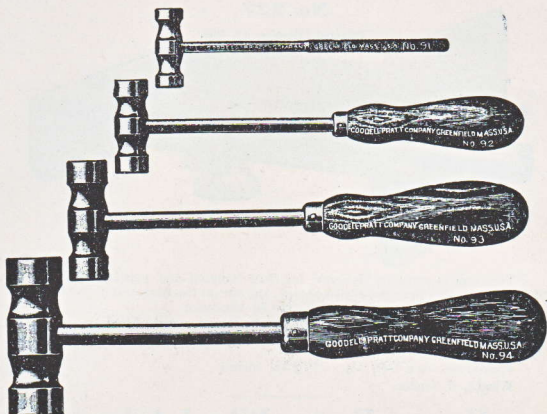
The Handles are small, of polished hard wood, and will fit the hand nicely. A hole is drilled the entire length.

No. 104. Capacity 0 to ⅝ inch.....(MANTLE) \$1.50

No. 106. Capacity 0 to ¼ inch.....(MANACLE) 2.00

Packed one in a box.

Brass Hammers



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This line of Brass Hammers for use on finished work will be found convenient, practical, and of moderate cost.

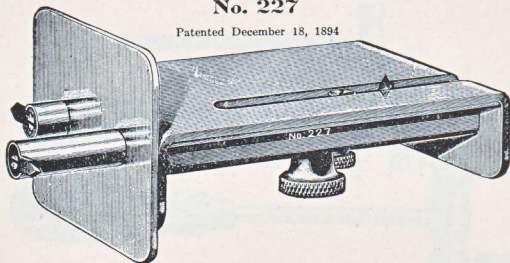
- | | | |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| No. 91. | Polished brass Head, $\frac{1}{2} \times 1\frac{1}{2}$ inches; polished steel handle, with knurled grip. Length over all, $5\frac{3}{4}$ inches; weight, 2 ounces. Price, each . . . (PRESENT) | \$0.25 |
| No. 92. | Polished brass Head, $\frac{9}{16} \times 1\frac{3}{4}$ inches; steel shank, and polished hard-wood handle. Length over all, $7\frac{5}{8}$ inches; weight, 4 ounces. Price, each (PRAY) | .35 |
| No. 93. | Polished brass Head, $\frac{3}{4} \times 2\frac{1}{4}$ inches; steel shank, and polished hard-wood handle. Length over all, 8 inches; weight, 8 ounces. Price, each (PRETTY) | .45 |
| No. 94. | Polished brass Head, 1×3 inches; steel shank, and polished hard-wood handle. Length over all, 10 inches; weight, 16 ounces. Price, each (PEACH) | .80 |

Above Hammers are packed one in a box.

Combination Butt Gauge

No. 227

Patented December 18, 1894



This tool is specially designed for door hanging and mortise work. The double-edge spurs are carefully hardened; the one on the back end of the double end bar is adjustable for the regulation of clearance.

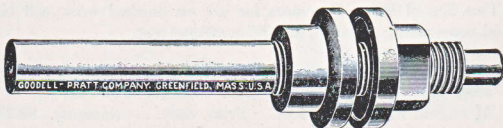
It is made entirely of steel, full polished, and nickel plated.

Price, per dozen (PASTE) \$12.00

Packed one in a box, $3\frac{3}{4} \times 2\frac{1}{2} \times 1\frac{3}{4}$ inches.

Weight, 9 ounces.

Saw or Emery Wheel Arbors



These little Arbors will be found a great convenience for holding Saws or Emery Wheels in small Lathes.

They are made in four sizes, as described below:

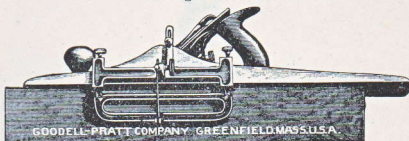
- | | | |
|----------|--------------------------------------------------------------------------------------------------------------------------------------|----------------|
| No. 321. | 4 inches long, $\frac{3}{8}$ inch in diameter, opening $\frac{1}{2}$ inch between flanges. | |
| | Price, each | (SAWER) \$0.75 |
| No. 322. | $4\frac{3}{4}$ inches long, $\frac{1}{2}$ inch in diameter, opening between flanges $\frac{3}{4}$ inch. | |
| | Price, each | (SARBO) 1.00 |
| No. 323. | 7 inches long, $\frac{3}{4}$ inch in diameter, opening between flanges 1 inch, diameter of shaft between flanges $\frac{1}{2}$ inch. | |
| | Price, each | (SANTOS) 1.50 |
| No. 324. | 10 inches long, 1 inch in diameter, opening between flanges 1 inch, diameter of shaft between flanges $\frac{3}{4}$ inch. | |
| | Price, each | (SABOT) 2.50 |

Goodell-Pratt Company

Iron Plane Gauge

No. 333

Cut shows Gauge attached to a Plane



This tool can be readily attached to any Iron Plane, and will enable the operator to accurately plane bevels of any desired angle, or make an even joint, and will do away with the continued use of a Bevel or Try Square. The flat surface of the guide is ground to insure its accurate working.

This little device is so simple that very little skill is required to operate it, and an inexperienced workman can do as nice a job of beveling or jointing, and in much less time, than his more skillful brother workman with his years of experience using his plane without this attachment.

It is made entirely of iron and steel, and fully nickeled.

Price, each (WRANGLE) \$1.50

Packed one in a box, $8\frac{1}{4} \times 5 \times 2$ inches.

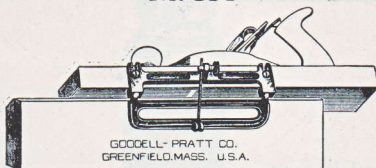
Weight, $1\frac{1}{4}$ pounds.

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Wood Plane Gauge

No. 334



This device can be attached to any Wood Plane for accurate jointing and beveling; it will prove quite as valuable an attachment for a Wood Plane as the No. 333, described above, is for an Iron one.

Made entirely of iron and steel, fully nickeled.

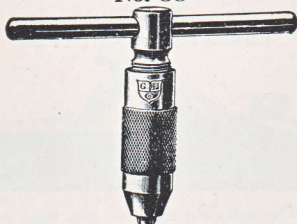
Price, each (PATIENT) \$1.00

Packed one in a box, $8\frac{1}{4} \times 4\frac{1}{4} \times 1\frac{3}{4}$ inches.

Weight, 18 ounces.

Tool or Tap Holder

No. 88



This tool will be found very convenient for holding small Drills or Taps where occasion requires the use of any like or similar Holder. The Jaws are hardened and tempered. The Nut is extra long and knurled, as shown in the cut. Capacity to $\frac{7}{32}$ inch.

Price, per dozen.....(TRAM) \$6.00

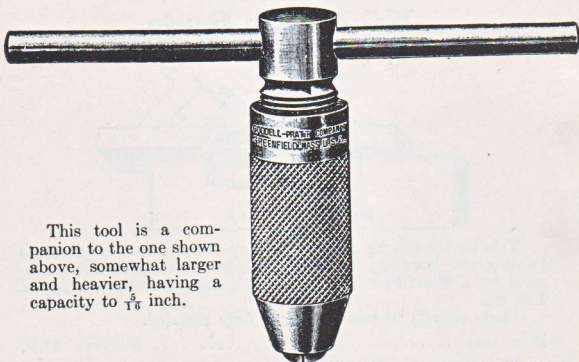
Packed one in a box, 4 x 3 x $\frac{3}{4}$ inch. Weight, 4 ounces.

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Tool or Tap Holder

No. 89



This tool is a companion to the one shown above, somewhat larger and heavier, having a capacity to $\frac{5}{16}$ inch.

Price, per dozen.....(THRILL) \$9.00

Packed one in a box, 5 x 3 x 1 inch. Weight, 6 ounces.

Hand Knurling Tool

No. 95



This convenient little knurling outfit has a forged steel shank, polished and nickel plated, a cocobolo handle, hollow, with a screw cap for holding the extra knurls.

Three knurls $\frac{5}{8}$ inch in diameter, $\frac{3}{8}$ inch thick; one each, fine cross, medium cross, and plain straight, are furnished with each set.

Total length of tool, 10 inches.

Price, each, complete with 3 knurls.....(PESTER) \$2.50

Separate Handles, price, each.....(PEST) 1.00

"A" Knurls, plain straight, price, each.....(PAN) .50

"B" Knurls, fine cross, price, each.....(PILL) .50

"C" Knurls, medium cross, price, each.....(PULL) .50

Packed one set in a box, $10 \times 1\frac{3}{4} \times 1\frac{1}{2}$ inches. Weight, 9 ounces.

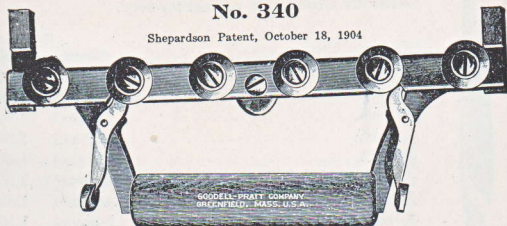
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Clapboard Marker

No. 340

Shepardson Patent, October 18, 1904



This tool can be operated by either right or left hand and, the cutters being beveled on one side only, it makes an accurate mark and insures a close joint against the corner board or window casing.

The metal parts of this tool are white nickeled.

Price, each.....(PARROT) \$1.00

Packed one in a box, $8\frac{1}{4} \times 3\frac{3}{4} \times 1$ inch. Weight, 1 pound.

Wm. Pratt

BRAND

German Pattern Bits

No. 444



If you are looking for a good article, and if you want the VERY FINEST German Pattern Bit ever made, it will pay you to investigate; and if you investigate you will buy this one.

BECAUSE

Each and every one is HAND MADE.

BECAUSE

Each and every one is oil tempered.

BECAUSE

Each and every one will bore faster and last longer than any other brand on the market.

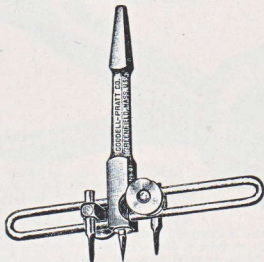
BECAUSE, also,

EVERY BIT IS WARRANTED, and will be REPLACED WITHOUT CHARGE, if not satisfactory.

	Per Dozen
$\frac{1}{32}$ inch..... (TOOTH)	\$1.50
$\frac{2}{32}$ inch..... (THUMB)	1.50
$\frac{3}{32}$ inch..... (TONGUE)	1.50
$\frac{4}{32}$ inch..... (TRAIN)	1.50
$\frac{5}{32}$ inch..... (TASK)	1.50
$\frac{6}{32}$ inch..... (TEAM)	1.50
$\frac{7}{32}$ inch..... (TRUMPET)	1.50
$\frac{8}{32}$ inch..... (TICKET)	1.50
$\frac{9}{32}$ inch..... (TARGET)	1.50
$\frac{10}{32}$ inch..... (TUMBLE)	1.50
$\frac{11}{32}$ inch..... (TRAMPLE)	1.50
$\frac{12}{32}$ inch..... (TENDER)	1.50
Assorted, $\frac{4}{32}$ to $\frac{8}{32}$ inch..... (TREMBLE)	1.50

Packed one dozen in a box.

Washer Cutter No. 41



A strong, well-made, useful device for cutting washers from 1 inch to $5\frac{1}{2}$ inches, provided with removable blades, adjustable as to length of cutting edge as well as position. These blades can be easily removed for sharpening, or replaced when they wear out.

The whole tool is nicely polished and attractive in appearance.

Price, each.....	(PEONY)	\$1.00
Extra Blades, per set.....	(PURPLE)	.25

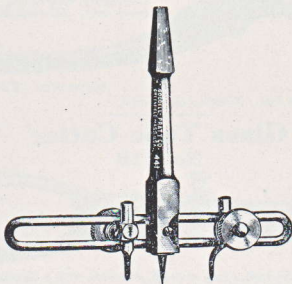
Packed one in a box, $5\frac{3}{4} \times 5\frac{3}{4} \times 1\frac{3}{4}$ inches.

Weight, 11 ounces.

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Washer Cutter No. 441



This tool is similar to the No. 41 described above, but is equipped with Offset Blades, with which it is possible to cut washers from $\frac{1}{2}$ to $5\frac{1}{2}$ inches.

Price, each.....	(PINUS)	\$1.25
Extra Blades, per set.....	(PINY)	.40

Goodell-Pratt Company

Saw Set No. 201



Designed for use on either wide or narrow saws, and so constructed that the teeth of the saw are always in sight of the operator, insuring accuracy in setting. The Frame and Handles are made of malleable iron; the inserted Anvil is made of steel carefully tempered; the Jaw also is tempered steel; the Adjustable Gauge can be easily brought into position; in fact, we believe this to be one of the most practical Saw Sets on the market. It is well made, all steel parts are polished, other parts are white nickeled. Eight inches long over all.

Price, per dozen.....(SAWSET) \$10.00

Packed one in a box. Weight, 17 ounces.

Saw Set No. 206



This Saw Set differs slightly in design from the one shown above. The Frame and Handles are made of malleable iron, white nickeled; the Anvil and Jaws are made of tempered steel. It is adjustable, thoroughly well made, and practical in every way. All steel parts are polished.

Price, per dozen.....(SAWBUCK) \$10.00

Packed one in a box. Weight, 15 ounces.

Glass Tube Cutter No. 218



This Cutter is 12½ inches long over all, provided with a Graduated Steel Beam 6½ inches long, with a Gauge Stop that can be set at any desired point. The Cutter with which it is equipped is especially honed and tested, the Beams are polished and nickel plated, the Handles are white nickeled only. The tool is practically indestructible, and by replacing the cutter wheels from time to time as they become dull, the tool will always be as good as new.

Price, per dozen.....(GECK) \$15.00

Packed one in a box.

Bench Hook

No. 196

Patented November 1, 1910



This little Bench Hook can be readily inserted in any bench by boring the proper size round hole. It is adjustable for height, easily changed, and can be faced in different directions as desired; any of the four faces can be used at will.

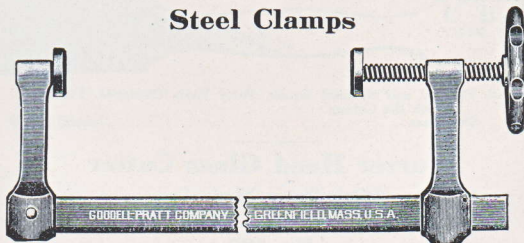
Price, per dozen (HOOK) \$6.00

Packed one only in a box.

Steel Clamps

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We are furnishing these Clamps in seven sizes, as listed below. They are so constructed that they can be quickly adjusted and will lock themselves the moment the pressure is applied to the screw. The bar is $3\frac{1}{4}$ inches from center of screw; the lengths given are opening lengths, not over-all measurements. They are furnished with steel button, steel screw, malleable iron arms, and drawn steel bar, $\frac{3}{8} \times \frac{1}{4}$ inch. It will be found a very desirable Clamp for *light or medium work*. The bars are finished bright, the arms japanned, making an attractive finish.

No. 170.	To open 4 inches, list each	..... (SACHEM)	\$0.60
No. 171.	To open 6 inches, list each	..... (SACHET)	.70
No. 172.	To open 8 inches, list each	..... (SABLE)	.80
No. 173.	To open 10 inches, list each	..... (SACKBUT)	.90
No. 174.	To open 12 inches, list each	..... (SADDLE)	1.00
No. 175.	To open 18 inches, list each	..... (SAFFRON)	1.25
No. 176.	To open 24 inches, list each	..... (SAGO)	1.50

Packed two Clamps in a box.

Turret Head Glass Cutters

Patented March 31, 1896

It is our purpose in offering these tools to provide a more perfect and durable, as well as more convenient, Glass Cutter than has heretofore been placed on the market. We call special attention to the novel feature of the No. 1 and No. 2, lying in the turret-like holder for the six cutters, which may be revolved on or clamped to the frame by the screw at its center, the head of which appears on the reverse side of the tool from that shown in the cut. This arrangement enables the operator to place any of the cutters in position for use instantly; or, if desired, the turret may be removed, and the cutters be replaced with new in a minute's time. The turret is held within a circular recess, which protects all of the cutters not in a position for use. The cutters are carefully hardened and ground by special processes. *Every cutter is tested by actually cutting glass before being mounted in the tool.*



No. 1 Polished and Nickered Frame, Turret Holder, Six Cutters, Nickered Ferrule, Rosewood Finish Handle:

Per dozen.....	(GRAIN)	\$4.00
Extra Cutter Wheels, per dozen.....	(GRACE)	.50

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No. 2. Polished and Nickered Frame, Putty Knife Combined, Turret Holder, Six Cutters.

Per dozen.....	(GRAIL)	\$4.00
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Turret Head Glass Cutter

With Extra Magazine

Patented March 31, 1896; Others Pending

No. 400



This Glass Cutter is furnished with twelve wheels, six of them are in the turret and six additional in the magazine compartment, as shown in cut. When the six wheels in the turret are worn out, the operator has six more wheels at his command with which to replace them. It is also provided with a steel ball at the end of the handle for convenience in glass breaking. It is of the same general appearance and finish as the No. 1 Turret Head Glass Cutter, shown and described above; it has, however, twice as many cutter wheels and does not cost quite twice as much.

List, per dozen.....	(GANTS)	\$7.50
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Goodell-Pratt Company

Glass Cutters



- No. 3. Polished Frame, two Cutters, Nicked Ferrule,
Enameled Wood Handle.
Per dozen.....(GALL) \$2.00



- No. 4. Polished Frame, Putty Knife combined, two Cutters.
Per dozen.....(GLARE) \$2.00



- No. 5. Polished and Red Finish, two Cutters.
Per dozen.....(GRADE) \$1.50



- No. 216. Polished Frame, one Cutter, Nicked Ferrule,
Wood Handle.
Per dozen.....(GAVE) \$1.00



- No. 217. Polished and Red Finish, one Cutter, Metal Handle.
Per dozen.....(GAWK) \$0.80



- No. 337. Polished and Red Finish.
Per dozen.....(GALA) \$0.80



- No. 338. Polished and Red Finish.
Per dozen.....(GARLIC) \$0.80

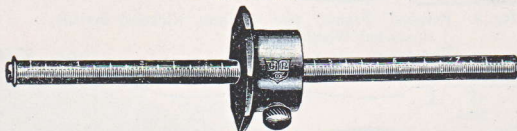
All are packed one dozen in a box.

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Single Beam Roller Gauge

No. 220

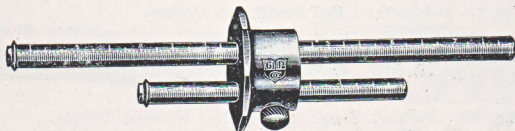


This tool has one 8-inch graduated steel beam, with roller marker, and is full polished and nickel plated.

Price, per dozen..... (PASS) \$12.00

Double Beam Roller Gauge

No. 221

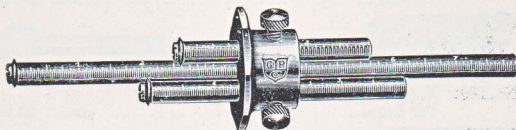


This tool has two graduated steel beams, with roller markers and is full polished and nickel plated. Beams, 8 inches and 4 inches.

Price, per dozen..... (PASSER) \$15.00

Triple Beam Roller Gauge

No. 222



This tool will be found a great convenience and labor saver where either single, double, or triple measurements are desired. The three beams are of different lengths, and each one is graduated. The whole tool is polished and nickel plated. Beams, 3 inches, 4 inches, and 8 inches.

Price, per dozen..... (TACILE) \$18.00

Packed one in a box.

Circular or Oval Gauge

No. 225



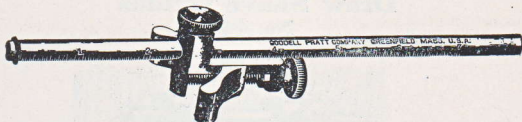
While this Roller Gauge can be used on straight work, it is particularly designed for circles and ovals. It is made up with a suitable head, as shown in cut, and an 8-inch graduated beam, with roller marker. The head can be fastened into position by knurled thumb-screw; the beam is full polished and nickel plated, the head is white nickerled.

Price, each..... (PARRY) \$0.75

Packed one in a box, $8\frac{1}{2} \times 2\frac{3}{4} \times 1\frac{3}{4}$ inches. Weight, 6 ounces.

Circular or Oval Gauge

No. 226



This tool differs from the above only in having a fine adjustment for the head for use on close work. This adjustment can be operated after the head is clamped in position.

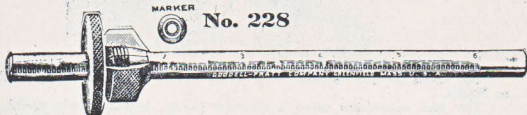
Beam is 8 inches long, full polished, and nickel plated; head, white nickerled.

Price, each..... (PARSON) \$1.00

Packed one in a box, $8\frac{1}{2} \times 2\frac{3}{4} \times 1\frac{3}{4}$ inches. Weight, 8 ounces.

Scratch Gauge

No. 228

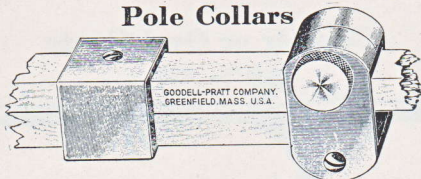


The graduated beam is nearly 7 inches long, graduated 6 inches of its length; the traveling head is split, and the binding ring arranged to tighten it in any desired position without in any way marring the graduation. The beam is full polished and nickel plated; the knurled nuts and the edges of the head are white nickerled. The marker does not rotate; it is, however, notched, making a formed cutter, the face of which can be ground and the cutter always kept sharp.

Price, each..... (PASSAGE) \$1.25

Packed one in a box.

Pole Collars



This set consists of one solid and one adjustable clamp collar, each with an opening 1 inch square, for use on measuring poles either solid or adjustable. Where adjustable bars are used they should be about $\frac{1}{2}$ inch by 1 inch.

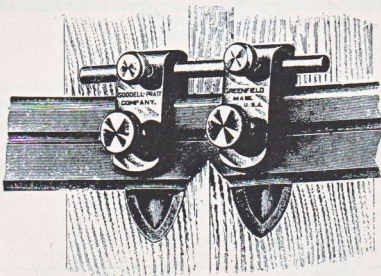
The convenience of this little device will be appreciated by carpenters and mechanics generally. Furnished in two styles of finish, as noted below.

- No. 45. Japan Finish, no bars furnished.
 Price, per set. (TINDER) \$0.60
- No. 46. Full polished and nickel plated, no bars furnished.
 Price, per set. (TRUE) .75

Packed one set in a box, $4\frac{1}{4} \times 2 \times 1\frac{1}{2}$ inches. Weight, 10 ounces.

Draw Shave Guides

No. 44



Cut shows the tool attached to a Draw Shave; we furnish Gauges only, no Blades.

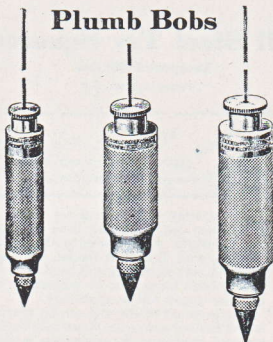
This tool, sometimes called a Chamfer Gauge, is particularly useful in cornering heavy timber, insuring evenness and uniformity in the width of the chamfer, and enabling the operator to do a good job and save much time. These are made in a medium size; can be attached without difficulty to any ordinary Draw Shave.

The back of the Guides are polished, the faces and knurled head thumb-screws nickel plated.

- Price, per pair. (PEDAL) \$1.00

Packed one pair in a box, $4\frac{1}{2} \times 1\frac{3}{4} \times 1\frac{1}{2}$ inches. Weight, 10 ounces.

Plumb Bobs



In designing these Plumb Bobs we have aimed at the production of an article which will satisfy the most particular workman, and at the same time have a tool which can be sold at a moderate price. The body part is of brass, polished, knurled, nickeled, and buffed, and filled with heavy metal to get the required weight. The points are of steel, tempered, ground, and polished. Each Bob is furnished with six feet of laid twine; they are made in three sizes, as shown in cut, and weigh 8, 12, and 16 ounces each.

No. 539.	8 ounces, list each	.....(BOBB)	\$1.00
No. 540.	12 ounces, list each(BAPB)	1.25
No. 541.	16 ounces, list each(BLAB)	1.50

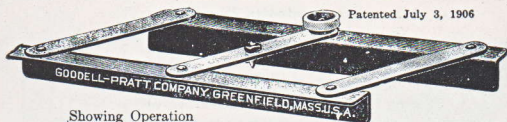
Packed one in a box.

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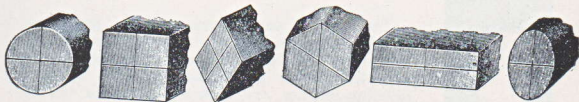
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Universal Center Finders

Patented July 3, 1906



Showing Operation



This little device enables the operator to accurately locate the center in any piece of material, round, square, rectangular, or oval, of any diameter up to its capacity, by drawing two lines, the intersection of which must be the center point. It is made of steel, polished, and nickeled. Furnished in three sizes as below:

No. 341.	2 inches and under, list each	.....(FENCE)	\$0.50
No. 342.	3 $\frac{3}{8}$ inches and under, list each	.....(FEND)	.75
No. 343.	5 $\frac{1}{8}$ inches and under, list each	.....(FELT)	1.00

Packed one in a box.

All Steel Try Squares

Tempered Blades

Patent Applied For



Appreciating the demand for a Try Square of better grade than has heretofore been used by carpenters and wood workers, we are offering this line of All Steel Try Squares, with Tempered Blades, the beams provided with a patent rest so that it will lie flat on the work and stay flat without being held in position, a convenience which the user cannot fail to appreciate.

The accuracy of the tool can be vouched for, the handle is well finished and nickel plated; the Blade is highly polished but not graduated; if graduation is desired, see Squares shown and described below.

Price, Each

No. 806.	Length of Blade, 6 inches.....	(PARCEL)	\$1.00
No. 808.	Length of Blade, 8 inches.....	(PARDON)	1.25
No. 810.	Length of Blade, 10 inches.....	(PARCH)	1.50

Packed one in a box.

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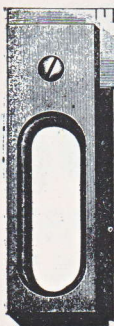
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All Steel Try Squares

Tempered Blades

Patent Applied For

Graduated Blades



The line of Squares shown upon this page have graduated Blades, otherwise they are identical with those described above. We wish to state emphatically that these graduations are put on with dividing engines, the accuracy of which can be vouched for.

Price, Each

No. 906.	Length of Blade, 6 inches.....	(PARISH)	\$1.25
No. 908.	Length of Blade, 8 inches.....	(POLISH)	1.50
No. 910.	Length of Blade, 10 inches.....	(PARLOR)	1.75

Packed one in a box.

Pattern Makers' Spoke Shave

No. 36



This Spoke Shave is designed and built with a special regard to the wants of a pattern maker; in fact, the design and form of construction are both the result of long years of experience in this particular vocation.

The Frame is entirely of iron, so shaped as to fit perfectly the hand of the operator, making possible a delicacy of touch which could not be obtained in any other way.

The Blade has a backward and forward adjustment, and is made as well as it is possible to make a Blade of this character. The whole tool is $9\frac{1}{2}$ inches long, and carries a Blade 2 inches wide.

The Frame is finished in japan, the Blade is highly polished, the Thumb Nut is nickel plated.

Price, per dozen..... (SPOSHA) \$9.00

Packed one in a box, $10 \times 2\frac{1}{2} \times 1\frac{1}{2}$ inches.

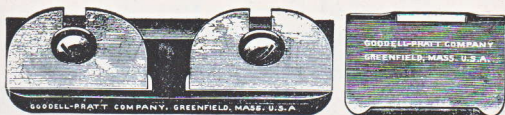
Weight, 13 ounces.

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Double Knife Spoke Shave

No. 37



This is particularly a pattern makers' tool, and one which will effect a great saving of time in shoulders, corners, in grooves and slots, and in many other places where it is impossible to operate an ordinary Spoke Shave; a protector can be used over either Blade, making it equally adaptable for either right or left hand work. The tool is well finished and thoroughly practical in its working.

Price, per dozen..... (DOUBLE) \$9.00

Packed one in a box, $3\frac{3}{4} \times 1\frac{1}{2} \times \frac{3}{4}$ inch.

Weight, 6 ounces.

Knurled Cup Point Nail Set No. 999



These Nail Sets and Punches are made from the very finest quality of tool steel, $\frac{3}{8}$ inch in diameter, knurled, as shown in cut. They are furnished in assorted sizes and different styles of point, as described below, and are tempered their entire length.

$\frac{2}{32}$, $\frac{3}{32}$, $\frac{4}{32}$, $\frac{5}{32}$, or assorted, per dozen.....(KAMBUL) \$2.00

Knurled Cup Point Nail Set No. 990



This is our new Slim Nail Set, $\frac{5}{16}$ inch in diameter at the knurling. These are in every way of equal quality with the others of our famous 990 series. Bright finish.

$\frac{2}{32}$, $\frac{3}{32}$, $\frac{4}{32}$, or assorted, per dozen.....(KARTER) \$2.00

Knurled Solid Punches No. 996



Same as 999, but with solid points.

Price, per dozen, assorted.....(KRUDE) \$2.00

Knurled Center Punches



No. 995. With regular point, as shown in cut, $\frac{13}{64}$(KRALE) \$2.50
No. 994. With special small point, $\frac{5}{64}$(KANTER) 2.50

Knurled Prick Punches No. 998



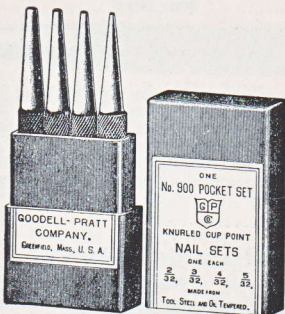
Same as No. 995, except points are longer.

Price, per dozen.....(KNUPP) \$2.50

All styles packed one dozen in a box.

Goodell-Pratt Company

Pocket Set Nail Sets No. 900



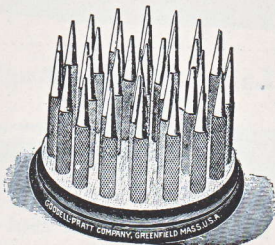
This set consists of our high-grade No. 999 Nail Sets, one each, $\frac{2}{32}$, $\frac{3}{32}$, $\frac{4}{32}$, and $\frac{5}{32}$, put up in a convenient pocket case, as shown in cut.

Price, per set.....(KEEL) \$0.75
Packed three sets in a box.

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Nail Set Display Board No. 936



This assortment consists of three dozen of our very best No. 999 Nail Sets, in assorted sizes, put up on neat display board, as shown in cut.

Price, per set.....(KAIL) \$7.00

Packed one set in a box.

Knurled Small Concave Chisel No. 983



The tools shown upon this page have the same high quality as the Nail Sets and Punches previously described. They are made from a fine quality of tool steel, $\frac{3}{8}$ inch in diameter, and are carefully shaped and properly tempered.

They are made with a variety of points, as illustrated, and many uses will at once suggest themselves to any one needing this class of tool.

Price, per dozen.....(KHAN) \$2.50

Knurled Large Concave Chisel No. 984



Price, per dozen.....(KELP) \$2.60

Knurled Small Straight Angle Chisel No. 985



Price, per dozen.....(KAYAK) \$2.50

Knurled Large Straight Angle Chisel No. 986



Price, per dozen.....(KEDGE) \$2.50

Knurled Rivet Set No. 987



Price, per dozen.....(KERF) \$3.00

Knurled Small Round Nose Punch No. 988



The tools here shown belong to the same series as those described on the previous page, and an excellent idea of their points will be obtained by an examination of the cuts.

Price, per dozen.....(KILN) \$2.50

Knurled Large Round Nose Punch No. 989



Price, per dozen.....(KNAP) \$2.50

Knurled Small Center Punch No. 991

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Price, per dozen.....(KNAG) \$2.50

Knurled Cold Chisel $\frac{1}{8}$ Inch No. 992



Price, per dozen.....(KNOB) \$3.00

Knurled Cold Chisel $\frac{1}{4}$ Inch No. 993



Price, per dozen.....(KNELL) \$3.00

Knurled Saddlers' Drive Punches

No. 997



These tools are in every way companions to the others in our 990 series, described on previous pages, and are of the same high quality.

We wish to call particular attention to the knurling, which fact the user will at once appreciate. They are made in 12 sizes, as listed below.

No. 1.	Per dozen, size of knurling $\frac{3}{8}$ inch, hole $\frac{5}{16}$ inch	(KNIT)	\$3.00
No. 2.	Per dozen, size of knurling $\frac{3}{8}$ inch, hole $\frac{3}{16}$ inch	(KNOCK)	3.00
No. 3.	Per dozen, size of knurling $\frac{3}{8}$ inch, hole $\frac{1}{4}$ inch	(KINTO)	3.00
No. 4.	Per dozen, size of knurling $\frac{3}{8}$ inch, hole $\frac{1}{2}$ inch	(KRUG)	3.00
No. 5.	Per dozen, size of knurling $\frac{3}{8}$ inch, hole $\frac{9}{16}$ inch	(KRAG)	3.00
No. 6.	Per dozen, size of knurling $\frac{3}{8}$ inch, hole $\frac{5}{8}$ inch	(KROG)	3.00
No. 7.	Per dozen, size of knurling $\frac{3}{8}$ inch, hole $\frac{1}{2}$ inch	(KRIG)	3.00
No. 8.	Per dozen, size of knurling $\frac{1}{16}$ inch, hole $\frac{1}{16}$ inch	(KNEE)	3.50
No. 9.	Per dozen, size of knurling $\frac{1}{16}$ inch, hole $\frac{1}{4}$ inch	(KINO)	3.50
No. 10.	Per dozen, size of knurling $\frac{1}{16}$ inch, hole $\frac{3}{8}$ inch	(KARO)	3.50
No. 11.	Per dozen, size of knurling $\frac{1}{2}$ inch, hole $\frac{1}{16}$ inch	(KNOUT)	4.00
No. 12.	Per dozen, size of knurling $\frac{1}{2}$ inch, hole $\frac{1}{12}$ inch	(KNAVE)	4.00

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Knurled Saddlers' Drive Punches

In Sets

No. 950

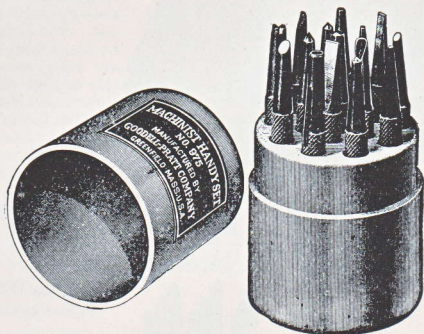
This set consists of one each Saddler's Drive Punch, Nos. 1 to 12, put up in a neat, round box, as shown in cut.



Price, per set, complete in box, as shown.....(KNOLL) \$3.50

Weight, per set, 1½ pounds.

Machinists' Handy Set
No. 975



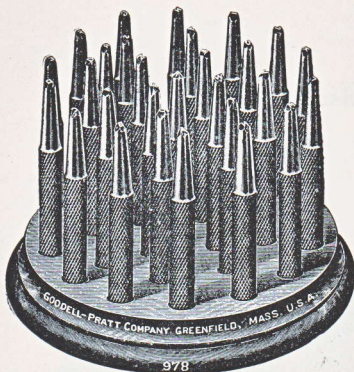
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This set consists of one each of our Nos. 983, 984, 985, 986, 987, 988, 989, 991, 992, 993, 995, 996, 997-6, 998, and 999- $\frac{2}{3}$, as described on the foregoing pages. These tools are put up in a wooden box, as shown in the illustration, and will be found very handy upon the workbench.

Price, per set, complete in box, as shown (KEBLAH) \$2.50

Goodell-Pratt Company

Hand Cut Steel Letters



No. 978

Patent applied for

This set consists of 26 Hand Cut Steel Letters, A to Z, also one each "&" sign and period. Every one of these Letters are carefully hand cut, and not stamped or pressed out. The handles or bodies of these Letters are milled off on one side so that when the thumb rests on the flat part the Letter is sure to be right side up and perpendicular.

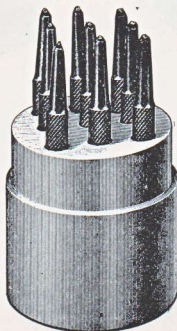
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Price, per set.....	(KEN)	\$7.00
Price, per letter.....		.25
Packed one set in a box. Weight, per set, 3½ pounds.		

Hand Cut Steel Figures

No. 980

Patent applied for



This set consists of 9 Hand Cut Steel Figures, 1, 2, 3, 4, 5, 6 (or 9), 7, 8, and 0. These are manufactured exactly the same as the Letters described above, every Figure being strictly hand cut, and the bodies made in such a manner that the Figures are always right side up and perpendicular when in use.

Price, per set.....	(KIT)	\$2.25
Price, per figure.....		.25
Packed one set in a box. Weight, per set, 1½ pounds.		

We own and operate the plant of the Stratton Level Company, which for 45 years has made the highest grade Level that skilled mechanics have been able to produce. The superiority of these Levels is generally acknowledged and their accuracy unquestioned. We shall maintain the high standard of quality that has been set in the past and shall improve it whenever and wherever possible.

Every glass used on the Stratton Level is rigidly tested before being used and none of inferior quality is used. The Stratton adjustment is practical and popular. Remember that all wood Levels should be kept dry; excessive dampness causes the wood to swell and either warp or spring.

All lumber used in the construction of Stratton Levels is carefully cured under personal supervision. Every brass bound Level is constructed to withstand atmospheric conditions as far as possible. Every section used in the construction of sectional Levels is planed before being put together. The binding used on Stratton Levels is a real binding, the brass is dovetailed the entire length of the corners of the Level, lengthwise, and each rod is doweled to the heavy brass end plate.

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To adjust: First, place the Level in an absolutely level position, move the bar to the center of the bubble, and you will find that your Level is true. When vials are ground to a perfect curve, it is not necessary for the bubble to be at a certain center of the glass.

Important Notice

Where Levels are returned to us for repairs, all transportation charges must be prepaid. Oftentimes Levels are returned for repairs when the transportation charges amount to more than the cost of a new Level. We wish to caution our customers against returning any except the high-grade expensive Levels to have repairs made at our factory.

Stratton Rosewood Levels

(Strattons' No. 1A)

Carpenters' Level



Patented May 22, 1888

FULL BRASS BOUND. Sectional Construction.
SELECTED ROSEWOOD. Four pieces of Rosewood, built around a core of Solid Mahogany, every piece Thoroughly Seasoned.
GROUND VIAL. Stratton's Selected Vials. These vials are specially fine ground to a True Curve from end to end, and are set solid in stock.
IMPROVED ADJUSTMENT. Stratton's movable bar.
BINDING AND TRIMMING. Full Brass Bound. Binding is dovetailed entire length and doweled to heavy brass end plates. Ornamental brass side view.

	Length	Dimensions	Approx. Weight, Each	Price, Each
No. 1024	24 inches	3 x 1 1/4 inches	3 1/2 pounds	(NACRE) \$7.00
No. 1026	26 inches	3 x 1 1/4 inches	3 3/4 pounds	(NADIR) 7.25
No. 1028	28 inches	3 x 1 1/4 inches	4 pounds	(NAG) 7.50
No. 1030	30 inches	3 x 1 1/4 inches	4 1/4 pounds	(NAME) 8.00

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Stratton Rosewood Levels

(Strattons' No. 1A with double plumb)

Carpenters' Level



Patented May 22, 1888

FULL BRASS BOUND. Sectional Construction.
SELECTED ROSEWOOD. Four pieces of Rosewood, built around a core of Solid Mahogany, every piece Thoroughly Seasoned.
GROUND VIALS. Stratton's Selected Vials. These vials are specially fine, ground to a True Curve from end to end, and are set solid in stock.
DOUBLE PLUMB. Always right side up.
IMPROVED ADJUSTMENT. Stratton's movable bar.
BINDING AND TRIMMING. Full Brass Bound. Binding is dovetailed entire length and doweled to heavy brass end plates. Ornamental brass side views.

	Length	Dimensions	Approx. Weight, Each	Price, Each
No. 4024	24 inches	3 x 1 1/4 inches	3 1/2 pounds	(NAP) \$7.75
No. 4026	26 inches	3 x 1 1/4 inches	3 3/4 pounds	(NARD) 8.00
No. 4028	28 inches	3 x 1 1/4 inches	4 pounds	(NARRATE) 8.25
No. 4030	30 inches	3 x 1 1/4 inches	4 1/4 pounds	(NARROW) 8.75

Goodell-Pratt Company

Stratton Rosewood Levels

(Strattons' No. 10)

Special Machinists' and Carpenters' Level



Patented May 22, 1888

FULL BRASS BOUND. SOLID ROSEWOOD.

SELECTED ROSEWOOD. Extra fine solid stick. Thoroughly Seasoned.

GROUND VIAL. Stratton's Selected Vials. These vials are specially fine, ground to a True Curve from end to end, and are set solid in stock.

IMPROVED ADJUSTMENT. Stratton's movable bar.

BINDING AND TRIMMING. Full Brass Bound. Binding is dovetailed entire length and doweled to heavy brass end plates. Brass side views.

	Length	Dimensions	Approx. Weight, Each	Price, Each
No. 1406	6 inches	1 5/8 x 1 inches	5/8 pound	(NICK) \$2.00
No. 1408	8 inches	1 5/8 x 1 inches	3/4 pound	(NICTATE) 2.00
No. 1410	10 inches	1 5/8 x 1 inches	7/8 pound	(NIECE) 2.40
No. 1412	12 inches	2 x 1 inches	1 1/8 pounds	(NIGH) 2.60
No. 1414	14 inches	2 x 1 inches	1 3/8 pounds	(NIHIL) 2.80
No. 1416	16 inches	2 x 1 inches	1 5/8 pounds	(NIL) 3.00
No. 1418	18 inches	2 x 1 inches	1 3/4 pounds	(NINE) 3.25
No. 1420	20 inches	2 x 1 inches	2 pounds	(NIP) 3.50
No. 1422	22 inches	2 x 1 inches	2 1/4 pounds	(NISAN) 3.75
No. 1424	24 inches	2 x 1 inches	2 1/2 pounds	(NIT) 4.25
No. 1426	26 inches	2 x 1 inches	2 3/4 pounds	(NITRIC) 4.80
No. 1428	28 inches	2 x 1 inches	3 pounds	(NOCENT) 5.40
No. 1430	30 inches	2 x 1 inches	3 1/4 pounds	(NOCTURN) 6.00

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Stratton Rosewood Levels

(Strattons' No. 10 1/2)

Special Carpenters' Level



Patented May 22, 1888

FULL BRASS BOUND. SOLID ROSEWOOD.

SELECTED ROSEWOOD. Extra fine solid stick. Thoroughly Seasoned.

GROUND VIALS. Stratton's Selected Vials. These vials are specially fine, ground to a True Curve from end to end, and are set solid in stock.

DOUBLE PLUMB. Always right side up.

IMPROVED ADJUSTMENT. Stratton's movable bar.

BINDING AND TRIMMING. Full Brass Bound. Binding is dovetailed entire length and doweled to heavy brass end plates. Brass side views.

	Length	Dimensions	Approx. Weight, Each	Price, Each
No. 4418	18 inches	2 x 1 inches	1 3/4 pounds	(NOD) \$3.75
No. 4420	20 inches	2 x 1 inches	2 pounds	(NODDBE) 4.00
No. 4422	22 inches	2 x 1 inches	2 1/4 pounds	(NODDY) 4.25
No. 4424	24 inches	2 x 1 inches	2 1/2 pounds	(NODULE) 4.75
No. 4426	26 inches	2 x 1 inches	2 3/4 pounds	(NOG) 5.30
No. 4428	28 inches	2 x 1 inches	3 pounds	(NOMAD) 5.90
No. 4430	30 inches	2 x 1 inches	3 1/4 pounds	(NOMINAL) 6.50

Stratton Mahogany Levels

(Strattons' No. 1B)

Carpenters' Level



Patented May 28, 1888

FULL BRASS BOUND. SOLID MAHOGANY.

SELECTED MAHOGANY. Extra fine solid stick. Thoroughly Seasoned.

SELECTED PLAIN VIALS. Stratton's Selected Vials. These vials are very fine and set solid. Drawn to a low curve of our own design. Sensitive and Accurate.

DOUBLE PLUMB. Always right side up.

IMPROVED ADJUSTMENT. Stratton's movable bar.

BINDING AND TRIMMING. Full Brass Bound. Binding is dovetailed entire length and doweled to heavy brass end plates. Ornamental brass side views.

	Length	Dimensions	Approx. Weight, Each	Price, Each
No. 4124	24 inches	3 x 1 1/4 inches	2 3/4 pounds	(NATANT) \$5.00
No. 4126	26 inches	3 x 1 1/4 inches	3 pounds	(NATURE) 5.25
No. 4128	28 inches	3 x 1 1/4 inches	3 1/4 pounds	(NAUTICAL) 5.50
No. 4130	30 inches	3 x 1 1/4 inches	3 1/2 pounds	(NAVE) 5.75

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Stratton Mahogany Levels

(Strattons' No. 11)

Special Machinists' Level



Patented May 22, 1888

FULL BRASS BOUND. SOLID MAHOGANY.

SELECTED MAHOGANY. Solid stick. Thoroughly Seasoned.

SELECTED PLAIN VIALS. Stratton's Selected Vials. These vials are fine and set solid. Drawn to a low curve of our own design. Sensitive and Accurate.

IMPROVED ADJUSTMENT. Stratton's movable bar.

BINDING. Full Brass Bound. Binding is dovetailed entire length and doweled to heavy brass end plates.

	Length	Dimensions	Approx. Weight, Each	Price, Each
No. 1508	8 inches	1 5/8 x 1 inches	3/8 pound	(NOMINATE) \$1.30
No. 1510	10 inches	1 5/8 x 1 inches	3/4 pound	(NONAGE) 1.55
No. 1512	12 inches	2 x 1 inches	1 pound	(NONCE) 1.85
No. 1514	14 inches	2 x 1 inches	1 1/8 pounds	(NONE) 2.05
No. 1516	16 inches	2 x 1 inches	1 3/8 pounds	(NOR) 2.25
No. 1518	18 inches	2 x 1 inches	1 1/2 pounds	(NORIA) 2.45
No. 1520	20 inches	2 x 1 inches	1 5/8 pounds	(NORMA) 2.60
No. 1522	22 inches	2 x 1 inches	1 3/4 pounds	(NORMAL) 2.85
No. 1524	24 inches	2 x 1 inches	2 pounds	(NORMAN) 3.00
No. 1526	26 inches	2 x 1 inches	2 1/8 pounds	(NORTHERN) 3.25
No. 1528	28 inches	2 x 1 inches	2 1/4 pounds	(NOSTRIL) 3.50
No. 1530	30 inches	2 x 1 inches	2 1/2 pounds	(NOSTRUM) 3.75

Stratton Mahogany Levels

(Strattons' No. 1C)

Carpenters' Level



Patented May 22, 1888

FULL BRASS BOUND. Sectional Construction.

SELECTED MAHOGANY. Five pieces of fine Mahogany, every piece Thoroughly Seasoned.

GROUND VIAL. Stratton's Selected Vials. These vials are specially fine, ground to a True Curve from end to end, and are set solid in stock.

IMPROVED ADJUSTMENT. Stratton's movable bar.

BINDING AND TRIMMING. Full Brass Bound. Binding is dovetailed entire length and doweled to heavy brass end plates. Ornamental side views.

	Length	Dimensions	Approx. Weight, Each	Price, Each
No. 1224	24 inches	3 x 1 1/4 inches	2 3/4 pounds	(NAVY) \$5.75
No. 1226	26 inches	3 x 1 1/4 inches	3 pounds	(NAY) 6.00
No. 1228	28 inches	3 x 1 1/4 inches	3 1/4 pounds	(NEAP) 6.25
No. 1230	30 inches	3 x 1 1/4 inches	3 1/2 pounds	(NEB) 6.50

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Stratton Mahogany Levels

(Strattons' No. 1C with double plumb)

Carpenters' Level



Patented May 22, 1888

FULL BRASS BOUND. Sectional Construction.

SELECTED MAHOGANY. Five pieces of fine Mahogany, every piece Thoroughly Seasoned.

GROUND VIALS. Stratton's Selected Vials. These vials are specially fine, ground to a True Curve from end to end, and are set solid in stock.

DOUBLE PLUMB. Always right side up.

IMPROVED ADJUSTMENT. Stratton's movable bar.

BINDING AND TRIMMING. Full Brass Bound. Binding is dovetailed entire length and doweled to heavy brass end plates. Ornamental side views.

	Length	Dimensions	Approx. Weight, Each	Price, Each
No. 4224	24 inches	3 x 1 1/4 inches	2 3/4 pounds	(NEGLECT) \$6.50
No. 4226	26 inches	3 x 1 1/4 inches	3 pounds	(NEPTUNE) 6.75
No. 4228	28 inches	3 x 1 1/4 inches	3 1/4 pounds	(NERVE) 7.00
No. 4230	30 inches	3 x 1 1/4 inches	3 1/2 pounds	(NESTLE) 7.25

Stratton Mahogany Levels

(Strattons' No. 1D)

Carpenters' Level



Patented May 22, 1888

FULL BRASS BOUND. SOLID MAHOGANY.

SELECTED MAHOGANY. Solid Stick. Thoroughly Seasoned.

SELECTED PLAIN VIALS. Stratton's Selected Vials. These vials are very fine and set solid. Drawn to a low curve of our own design. Sensitive and Accurate.

IMPROVED ADJUSTMENT. Stratton's movable bar.

BINDING. Full Brass Bound. Binding is dovetailed entire length and doweled to heavy brass end plates.

	Length	Dimensions	Approx. Weight, Each	Price, Each
No. 1324	24 inches	3 x 1 1/4 inches	2 3/4 pounds	(NET) \$3.50
No. 1326	26 inches	3 x 1 1/4 inches	3 pounds	(NEUTRAL) 3.75
No. 1328	28 inches	3 x 1 1/4 inches	3 1/4 pounds	(NEVER) 4.00
No. 1330	30 inches	3 x 1 1/4 inches	3 1/2 pounds	(NEW) 4.25

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Stratton Mahogany Levels

(Strattons' No. 1D with double plumb)

Carpenters' Level



Patented May 22, 1888

FULL BRASS BOUND. SOLID MAHOGANY.

SELECTED MAHOGANY. Solid Stick. Thoroughly Seasoned.

SELECTED PLAIN VIALS. Stratton's Selected Vials. These vials are very fine and set solid. Drawn to a low curve of our own design. Sensitive and Accurate.

DOUBLE PLUMB. Always right side up.

IMPROVED ADJUSTMENT. Stratton's movable bar.

BINDING. Full Brass Bound. Binding is dovetailed entire length and doweled to heavy brass end plates

	Length	Dimensions	Approx. Weight, Each	Price, Each
No. 4324	24 inches	3 x 1 1/4 inches	2 3/4 pounds	(NEWEL) \$4.00
No. 4326	26 inches	3 x 1 1/4 inches	3 pounds	(NEWT) 4.25
No. 4328	28 inches	3 x 1 1/4 inches	3 1/4 pounds	(NIBBLE) 4.50
No. 4330	30 inches	3 x 1 1/4 inches	3 1/2 pounds	(NICHE) 4.75

Stratton Mahogany Levels

(Strattons' No. 2)

Carpenters' Level



Patented May 22, 1888

SOLID MAHOGANY.

SELECTED PLAIN VIALS (Stratton's). Vials set solid.

DOUBLE PLUMB. Always right side up.

IMPROVED ADJUSTMENT. Stratton's movable bar.

HEAVY BRASS TOP AND END PLATES.

	Length	Dimensions	Approx. Weight, Each	Price per Dozen
No. 4724	24 inches	3 x 1 1/4 inches	2 1/8 pounds	(OAK) \$27.25
No. 4726	26 inches	3 x 1 1/4 inches	2 1/4 pounds	(OAR) 27.25
No. 4728	28 inches	3 x 1 1/4 inches	2 3/8 pounds	(OASIS) 27.25
No. 4730	30 inches	3 x 1 1/4 inches	2 1/2 pounds	(OAT) 27.25

Stratton Mahogany Levels

(Strattons' No. 11 1/2)

Special Machinists' and Carpenters' Level

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Patented May 22, 1888

FULL BRASS BOUND. SOLID MAHOGANY.

SELECTED MAHOGANY. Solid stick. Thoroughly Seasoned.

SELECTED PLAIN VIALS. Stratton's Selected Vials. These vials are very fine and set solid. Drawn to a low curve of our own design. Sensitive and Accurate.

DOUBLE PLUMB. Always right side up.

IMPROVED ADJUSTMENT. Stratton's movable bar.

BINDING. Full Brass Bound. Binding is dovetailed entire length and doweled to heavy brass end plates.

	Length	Dimensions	Approx. Weight, Each	Price, Each
No. 4508	8 inches	1 5/8 x 1 inches	5/8 pound	(NOTABLE) \$1.70
No. 4510	10 inches	1 5/8 x 1 inches	3/4 pound	(NOTAL) 1.95
No. 4512	12 inches	2 x 1 inches	1 pound	(NOTARY) 2.25
No. 4514	14 inches	2 x 1 inches	1 1/8 pounds	(NOTE) 2.45
No. 4516	16 inches	2 x 1 inches	1 1/4 pounds	(NOTED) 2.65
No. 4518	18 inches	2 x 1 inches	1 1/2 pounds	(NOTIFY) 2.85
No. 4520	20 inches	2 x 1 inches	1 5/8 pounds	(NOTION) 3.00
No. 4522	22 inches	2 x 1 inches	1 3/4 pounds	(NOVELTY) 3.25
No. 4524	24 inches	2 x 1 inches	2 pounds	(NUGGET) 3.50
No. 4526	26 inches	2 x 1 inches	2 1/8 pounds	(NULL) 3.75
No. 4528	28 inches	2 x 1 inches	2 1/4 pounds	(NUMBER) 4.00
No. 4530	30 inches	2 x 1 inches	2 1/2 pounds	NUMERAL) 4.25

Stratton Mahogany Levels

(Strattons' No. 35)

Mechanics' Level



SOLID MAHOGANY. Low cut side views.

BRASS TOP AND END PLATES. Stratton Adjustment.

PLAIN VIALS (Stratton's) Vials set solid.

	Length	Dimensions	Approx. Weight, Each	Price per Dozen
No. 1612	12 inches	2 x 1 inches	$\frac{1}{2}$ pound	(NUNCIO) \$9.25
No. 1618	18 inches	2 x 1 inches	$\frac{3}{4}$ pound	(NUPTIAL) 12.25
No. 1624	24 inches	2 x 1 inches	1 pound	(NURTURE) 15.25

Stratton Mahogany Levels

(Strattons' No. 35 with double plumb)

Mechanics' Level



SOLID MAHOGANY. Low cut side views.

BRASS TOP AND END PLATES. Stratton Adjustment.

PLAIN VIALS (Stratton's). Vials set solid.

DOUBLE PLUMB. Always right side up.

	Length	Dimensions	Approx. Weight, Each	Price per Dozen
No. 4612	12 inches	2 x 1 inches	$\frac{1}{2}$ pound	(NUT) \$12.25
No. 4618	18 inches	2 x 1 inches	$\frac{3}{4}$ pound	(NUTANT) 15.25
No. 4624	24 inches	2 x 1 inches	1 pound	(NUTMEG) 18.25

Stratton Mahogany Levels

(Strattons' No. 3)

Carpenters' Level



Patented May 22, 1888

SOLID MAHOGANY. Low cut side views.

HEAVY BRASS TOP AND END PLATES. Stratton Adjustment.

SELECTED PLAIN VIALS. Vials set solid.

	Length	Dimensions	Approx. Weight, Each	Price per Dozen
No. 1724	24 inches	3 x $1\frac{1}{4}$ inches	$2\frac{1}{8}$ pounds	(NUTSHELL) \$22.25
No. 1726	26 inches	3 x $1\frac{1}{4}$ inches	$2\frac{1}{4}$ pounds	(NUTTY) 22.25
No. 1728	28 inches	3 x $1\frac{1}{4}$ inches	$2\frac{3}{8}$ pounds	(NYMPH) 22.25
No. 1730	30 inches	3 x $1\frac{1}{4}$ inches	$2\frac{1}{2}$ pounds	(OAF) 22.25

Stratton Levels

(Strattons' Nos. 40 and 45)

Mechanics' Level



STAINED TO IMITATE MAHOGANY. Low cut side views.
BRASS TOP AND END PLATES. Stratton Adjustment.
PLAIN VIALS (Stratton's) Vials set solid.

	Length	Dimensions	Approx. Weight, Each	Price per Dozen
No. 1818	18 inches	$2\frac{3}{8} \times 1\frac{1}{4}$ inches	$1\frac{1}{4}$ pounds	(OATH) \$10.00
No. 1820	20 inches	$2\frac{3}{8} \times 1\frac{1}{4}$ inches	$1\frac{1}{2}$ pounds	(OBEY) 10.00
No. 1822	22 inches	$2\frac{3}{8} \times 1\frac{1}{4}$ inches	$1\frac{3}{4}$ pounds	(OBIT) 10.00
No. 1824	24 inches	$3 \times 1\frac{1}{8}$ inches	$1\frac{7}{8}$ pounds	(OBUND) 13.50
No. 1826	26 inches	$3 \times 1\frac{1}{8}$ inches	$2\frac{1}{4}$ pounds	(OBTUSE) 13.50
No. 1828	28 inches	$3 \times 1\frac{1}{8}$ inches	$2\frac{1}{2}$ pounds	(OBVERSE) 13.50
No. 1830	30 inches	$3 \times 1\frac{1}{8}$ inches	$2\frac{5}{8}$ pounds	(OCCIPUT) 13.50

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Stratton Levels

(Strattons' Nos. 40 and 45 with double plumb)

Mechanics' Level



STAINED TO IMITATE MAHOGANY. Low cut side views.
BRASS TOP AND END PLATES. Stratton Adjustment.
PLAIN VIALS (Stratton's). Vials set solid.
DOUBLE PLUMB. Always right side up.

	Length	Dimensions	Approx. Weight, Each	Price per Dozen
No. 4818	18 inches	$2\frac{3}{8} \times 1\frac{1}{4}$ inches	$1\frac{1}{4}$ pounds	(OBJECT) \$14.80
No. 4820	20 inches	$2\frac{3}{8} \times 1\frac{1}{4}$ inches	$1\frac{1}{2}$ pounds	(OBLATE) 14.80
No. 4822	22 inches	$2\frac{3}{8} \times 1\frac{1}{4}$ inches	$1\frac{3}{4}$ pounds	(OBTAIN) 14.80
No. 4824	24 inches	$3 \times 1\frac{1}{8}$ inches	$1\frac{7}{8}$ pounds	(OCCUR) 18.30
No. 4826	26 inches	$3 \times 1\frac{1}{8}$ inches	$2\frac{1}{4}$ pounds	(OCEAN) 18.30
No. 4828	28 inches	$3 \times 1\frac{1}{8}$ inches	$2\frac{1}{2}$ pounds	(OCHRE) 18.30
No. 4830	30 inches	$3 \times 1\frac{1}{8}$ inches	$2\frac{5}{8}$ pounds	(OCTAVE) 18.30

Stratton Levels

(Strattons' No. 03)

Carpenters' Level



Patented May 22, 1888

STAINED TO IMITATE MAHOGANY.

SELECTED PLAIN VIALS (Stratton's) Vials set solid.

IMPROVED ADJUSTMENT. Stratton's movable bar.

HEAVY BRASS TOP AND END PLATES.

	Length	Dimensions	Approx. Weight, Each	Price per Dozen
No. 1924	24 inches	3 x 1 1/4 inches	2 5/8 pounds	(OCULAR) \$18.60
No. 1926	26 inches	3 x 1 1/4 inches	2 7/8 pounds	(ODD) 18.60
No. 1928	28 inches	3 x 1 1/4 inches	3 pounds	(ODEON) 18.60
No. 1930	30 inches	3 x 1 1/4 inches	3 1/8 pounds	(OFF) 18.60

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Stratton Levels

(Strattons' No. 03 with double plumb)

Carpenters' Level



Patented May 22 1888

STAINED TO IMITATE MAHOGANY.

SELECTED PLAIN VIALS (Stratton's). Vials set solid.

DOUBLE PLUMB. Always right side up.

IMPROVED ADJUSTMENT. Stratton's movable bar.

HEAVY BRASS TOP AND END PLATES.

	Length	Dimensions	Approx. Weight, Each	Price per Dozen
No. 4924	24 inches	3 x 1 1/4 inches	2 5/8 pounds	(OFFAL) \$23.80
No. 4926	26 inches	3 x 1 1/4 inches	2 7/8 pounds	(OFFEND) 23.80
No. 4928	28 inches	3 x 1 1/4 inches	3 pounds	(OFFICE) 23.80
No. 4930	30 inches	3 x 1 1/4 inches	3 1/8 pounds	(OFTEN) 23.80

Goodell-Pratt Company

Stratton Levels

(Strattons' No. 58)

Mechanics' Level



STAINED TO IMITATE MAHOGANY. Low cut side views.

BRASS TOP PLATES. Stratton Adjustment.

PLAIN VIALS (Stratton's). Vials set solid.

	Length	Dimensions	Approx. Weight, Each	Price per Dozen
No. 2012	12 inches	2 1/8 x 1 1/8 inches	3/4 pound	(OGLE) \$5.50
No. 2014	14 inches	2 1/8 x 1 1/8 inches	7/8 pound	(OGER) 5.50
No. 2016	16 inches	2 1/8 x 1 1/8 inches	1 pound	(OIL) 5.50

(Strattons' No. 58 with double plumb)



STAINED TO IMITATE MAHOGANY. Low cut side views.

BRASS TOP PLATES. Stratton Adjustment.

PLAIN VIALS (Stratton's). Vials set solid.

DOUBLE PLUMB. Always right side up

	Length	Dimensions	Approx. Weight, Each	Price per Dozen	PAGE
No. 5012	12 inches	2 1/8 x 1 1/8 inches	3/4 pound	(OLOGY) \$8.50	263
No. 5014	14 inches	2 1/8 x 1 1/8 inches	7/8 pound	(OMEN) 8.50	
No. 5016	16 inches	2 1/8 x 1 1/8 inches	1 pound	(OMET) 8.50	

(Strattons' No. 55)



STAINED TO IMITATE MAHOGANY. Low cut side views.

BRASS TOP PLATES. Stratton Adjustment.

PLAIN VIALS (Stratton's). Vials set solid.

	Length	Dimensions	Approx. Weight, Each	Price per Dozen
No. 2018	18 inches	2 3/8 x 1 1/4 inches	1 1/4 pounds	(OKRA) \$8.00
No. 2020	20 inches	2 3/8 x 1 1/4 inches	1 1/2 pounds	(OLD) 8.00
No. 2022	22 inches	2 3/8 x 1 1/4 inches	1 5/8 pounds	(OLIO) 8.00
No. 2024	24 inches	2 3/8 x 1 1/4 inches	1 3/4 pounds	(OLIVE) 8.00

(Strattons' No. 55 with double plumb)



STAINED TO IMITATE MAHOGANY. Low cut side views.

BRASS TOP PLATES. Stratton Adjustment.

PLAIN VIALS (Stratton's). Vials set solid.

DOUBLE PLUMB. Always right side up

	Length	Dimensions	Approx. Weight, Each	Price per Dozen
No. 5018	18 inches	2 3/8 x 1 1/4 inches	1 1/4 pounds	(ONCE) \$11.60
No. 5020	20 inches	2 3/8 x 1 1/4 inches	1 1/2 pounds	(ONDI) 11.60
No. 5022	22 inches	2 3/8 x 1 1/4 inches	1 5/8 pounds	(ONSET) 11.60
No. 5024	24 inches	2 3/8 x 1 1/4 inches	1 3/4 pounds	(ONUS) 11.60

Goodell-Pratt Company

Stratton Levels

(Strattons' No. 50)

Mechanics' Level



STAINED TO IMITATE MAHOGANY. Low cut side views.
BRASS TOP PLATES. Stratton Adjustment.
PLAIN VIALS (Stratton's). Vials set solid.

	Length	Dimensions	Approx. Weight, Each	Price per Dozen
No. 2124	24 inches	$2\frac{1}{2} \times 1\frac{1}{4}$ inches	2 pounds	(ONYX) \$10.00
No. 2126	26 inches	$2\frac{1}{2} \times 1\frac{1}{4}$ inches	$2\frac{1}{8}$ pounds	(OPAKE) 10.00
No. 2128	28 inches	$2\frac{1}{2} \times 1\frac{1}{4}$ inches	$2\frac{1}{4}$ pounds	(OPPOSE) 10.00
No. 2130	30 inches	$2\frac{1}{2} \times 1\frac{1}{4}$ inches	$2\frac{1}{2}$ pounds	(OPTIC) 10.00

Stratton Levels

(Strattons' No. 50 with double plumb)

Mechanics' Level



STAINED TO IMITATE MAHOGANY. Low cut side views.
BRASS TOP PLATES. Stratton Adjustment.
PLAIN VIALS (Stratton's). Vials set solid.
DOUBLE PLUMB. Always right side up.

	Length	Dimensions	Approx. Weight, Each	Price per Dozen
No. 5124	24 inches	$2\frac{1}{2} \times 1\frac{1}{4}$ inches	2 pounds	(OPTION) \$13.60
No. 5126	26 inches	$2\frac{1}{2} \times 1\frac{1}{4}$ inches	$2\frac{1}{8}$ pounds	(OPUS) 13.60
No. 5128	28 inches	$2\frac{1}{2} \times 1\frac{1}{4}$ inches	$2\frac{1}{4}$ pounds	(ORACLE) 13.60
No. 5130	30 inches	$2\frac{1}{2} \times 1\frac{1}{4}$ inches	$2\frac{1}{2}$ pounds	(ORAL) 13.60

Stratton Levels

Strattons' No. 5 with double plumb)

Carpenters' Level



STAINED TO IMITATE MAHOGANY. Low cut side views.
BRASS TOP PLATES. Stratton Adjustment.
PLAIN VIALS (Stratton's). Vials set solid.
DOUBLE PLUMB. Always right side up.

	Length	Dimensions	Approx. Weight, Each	Price per Dozen
No. 5224	24 inches	$3 \times 1\frac{1}{8}$ inches	$2\frac{1}{8}$ pounds	(ORANGE) \$15.00
No. 5226	26 inches	$3 \times 1\frac{1}{8}$ inches	$2\frac{1}{4}$ pounds	(ORATION) 15.00
No. 5228	28 inches	$3 \times 1\frac{1}{8}$ inches	$2\frac{3}{8}$ pounds	(ORB) 15.00
No. 5230	30 inches	$3 \times 1\frac{1}{8}$ inches	$2\frac{5}{8}$ pounds	(ORBIT) 15.00

Stratton Levels (Strattons' No. 39) Plumbers' Special



STAINED TO IMITATE MAHOGANY. Low cut side views.
HEAVY BRASS TOP PLATES. Stratton Adjustment.
PLAIN VIALS (Stratton's). Vials set solid.

	Length	Dimensions	Approx. Weight, Each	Price per Dozen (ORDAIN)
No. 2312	12 inches	2 x $\frac{5}{8}$ inches	$\frac{3}{8}$ pound	\$7.20

(Strattons' No. 39 with double plumb)



STAINED TO IMITATE MAHOGANY. Low cut side views.
HEAVY BRASS TOP PLATES. Stratton Adjustment.
PLAIN VIALS (Stratton's). Vials set solid.
DOUBLE PLUMB. Always right side up.

	Length	Dimensions	Approx. Weight, Each	Price per Dozen (ORDEAL)
No. 5312	12 inches	2 x $\frac{5}{8}$ inches	$\frac{3}{8}$ pound	\$9.00

Stratton Levels (Strattons' Diamond Q)



HEAVY BRASS TOP PLATE. Stratton Adjustment.
PLAIN VIALS (Stratton's). Vials set solid.

	Length	Dimensions	Approx. Weight, Dozen	Price per Dozen (ORE)
No. 2406	6 inches	1 $\frac{1}{4}$ x 1 inches	2 $\frac{1}{2}$ pounds	\$3.00

Stratton Levels (Strattons' No. 90) Masons' Level



STAINED TO IMITATE MAHOGANY. Low cut side views.
HEAVY BRASS TOP PLATES. Stratton Adjustment.
SELECTED PLAIN VIALS (Stratton's). Vials set solid.
DOUBLE PLUMB. Always right side up.

	Length	Dimensions	Approx. Weight, Each	Price, Each
No. 5636	36 inches	2 $\frac{3}{8}$ x 1 $\frac{1}{4}$ inches	1 $\frac{1}{8}$ pounds	(OVINE) \$1.75
No. 5642	42 inches	2 $\frac{3}{8}$ x 1 $\frac{1}{4}$ inches	2 pounds	(OWL) 2.00
No. 5648	48 inches	2 $\frac{3}{8}$ x 1 $\frac{1}{4}$ inches	2 $\frac{1}{8}$ pounds	(OZONE) 2.50

Goodell-Pratt Company

Stratton Mahogany Levels (Strattons' No. 7) Masons' Level

STRATTON BROS.

Patented May 22, 1888

SOLID MAHOGANY. Low cut side views.
HEAVY BRASS TOP PLATES. Stratton Adjustment.
SELECTED PLAIN VIALS (Stratton's). Vials set solid.

	Length	Dimensions	Approx. Weight, Each	Price, Each
No. 2436	36 inches	$2\frac{7}{8} \times 1\frac{1}{4}$ inches	$2\frac{1}{2}$ pounds	(ORGAN) \$2.10
No. 2442	42 inches	$2\frac{7}{8} \times 1\frac{1}{4}$ inches	3 pounds	(ORGEAT) 3.25

(Strattons' No. 7 with double plumb)

STRATTON BROS.

Patented May 22, 1888

SOLID MAHOGANY. Low cut side views.
HEAVY BRASS TOP PLATES. Stratton Adjustment.
SELECTED PLAIN VIALS (Stratton's). Vials set solid.
DOUBLE PLUMB. Always right side up.

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	Length	Dimensions	Approx. Weight, Each	Price, Each
No. 5436	36 inches	$2\frac{7}{8} \times 1\frac{1}{4}$ inches	$2\frac{1}{2}$ pounds	(ORIENT) \$2.50
No. 5442	42 inches	$2\frac{7}{8} \times 1\frac{1}{4}$ inches	3 pounds	(ORIGIN) 3.65

Stratton Levels (Strattons No. 8) Masons' Level

STRATTON BROS.

Patented May 22, 1888

STAINED TO IMITATE MAHOGANY. Low cut side views.
HEAVY BRASS TOP PLATES. Stratton Adjustment.
SELECTED PLAIN VIALS (Stratton's). Vials set solid.

	Length	Dimensions	Approx. Weight, Each	Price, Each
No. 2536	36 inches	$2\frac{7}{8} \times 1\frac{1}{4}$ inches	$2\frac{3}{4}$ pounds	(ORRIS) \$1.75

(Strattons' No. 8 with double plumb)

STRATTON BROS.

Patented May 22, 1888

STAINED TO IMITATE MAHOGANY. Low cut side views.
HEAVY BRASS TOP PLATES. Stratton Adjustment.
SELECTED PLAIN VIALS (Stratton's). Vials set solid.
DOUBLE PLUMB. Always right side up.

	Length	Dimensions	Approx. Weight, Each	Price, Each
No. 5536	36 inches	$2\frac{7}{8} \times 1\frac{1}{4}$ inches	$2\frac{3}{4}$ pounds	(OSTENT) \$2.10

Nickel-Plated Pocket Levels



These Levels are made from hexagon brass tubing, full polished and nickel plated, making a very convenient and attractive Pocket Level. Sizes as specified.

No. 611.	Length, 2½ inches.	Price, each.....	(NORTH)	\$0.40
No. 612.	Length, 3½ inches.	Price, each.....	(NATE)	.50

Packed one half dozen in a box.

Iron Pocket Levels



No. 501.	Length, 2½ inches, milled base, japan finish.	Price, each.....	(NOBLE)	\$0.25
No. 502.	Length, 3½ inches, milled base, japan finish.	Price, each.....	(NOTER)	.35
No. 601.	Length, 2½ inches, milled base, white-nickel finish.	Price, each.....	(NEEN)	.30
No. 602.	Length, 3½ inches, milled base, white-nickel finish.	Price, each.....	(NURSE)	.40

Packed one half dozen in a box.

Electric Levels

Used as Attachments for Electric and Other Machines



These Levels are made of brass tubing, ground flat on the base, and can be attached to various kinds of large and small machinery. They are nickel plated and polished, and furnished in two lengths, as noted below.

No. 624.	Length, 2 inches.	Price, each.....	(NIMBLE)	\$0.25
No. 625.	Length, 3 inches.	Price, each.....	(NUMBLE)	.30

Packed one half dozen in a box.

Iron Bench Levels



- No. 503. Length, 4 inches, milled face and ends, japanned body. Price, each.....(NAIL) \$0.65
- No. 603. Length, 4 inches, milled face and ends, white-nickel finish. Price, each.....(NOSE) .75



- No. 504. Length, 6 inches, milled face and ends, japanned body. Price, each.....(NOBBY) .75
- No. 604. Length, 6 inches, milled face and ends, white-nickel finish. Price, each.....(NEAR) .90

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Iron Bench Levels

With Double Plumb



- No. 513. Length, 6 inches, milled face, japanned body, double plumb. Price, each.....(NIPPER) \$1.25
- No. 613. Length, 6 inches, milled face, japanned body, nickel-plated edges, double plumb. Price, each.....(NOZZLE) 1.50



- No. 505. Length, 6 inches, milled face and ends, japanned body, double plumb. Price, each.....(NESTER) 1.50
- No. 605. Length, 6 inches, milled face and ends, japanned body, nickel-plated edges. Price, each.....(NEITHER) 1.75

All the above packed one in a box.

Iron Levels

With Double Plumb



- No. 506. Length, 9 inches, milled face and ends, japanned body, double plumb.
Price, each..... (NITRE) \$1.65
- No. 606. Length, 9 inches, milled face and ends, japanned body, nickel-plated edges, double plumb.
Price, each..... (NIGHT) 1.90



- No. 507. Length, 12 inches, ground face and ends, japanned body, double plumb.
Price, each..... (NURDE) 1.75
- No. 607. Length, 12 inches, ground face and ends, japanned body, nickel-plated edges, double plumb.
Price, each..... (NADE) 2.00



- No. 509. Length, 18 inches, ground face and ends, japanned body, double plumb.
Price, each..... (NEED) 2.00
- No. 609. Length, 18 inches, ground face and ends, japanned body, nickel-plated edges, double plumb.
Price, each..... (NEST) 2.25
- No. 510. Length, 24 inches, ground face and ends, japanned body, double plumb.
Price, each..... (NATAL) 2.25
- No. 610. Length, 24 inches, ground face and ends, japanned body, nickel-plated edges, double plumb.
Price, each..... (NARTO) 2.50

All the above packed one in a box.

Iron Levels

With Grooved Base and Double Plumb



These Levels will be found very convenient for lining shafting or other similar work. We are offering them in such sizes as are most used. We do not recommend a Level with a grooved base except for use on shafting or other similar work.

No. 505V.	Length, 6 inches, milled face and ends, grooved base, double plumb, japanned body.	Price, each..... (NOVE)	\$1.50
No. 605V.	Length, 6 inches, milled face and ends, grooved base, double plumb, japanned body, nickeled edges.	Price, each..... (NOVICE)	1.75
No. 506V.	Length, 9 inches, ground face and ends, grooved base, double plumb, japanned body.	Price, each..... (NICE)	1.65
No. 606V.	Length, 9 inches, ground face and ends, grooved base, double plumb, japanned body, nickeled edges.	Price, each..... (NICER)	1.90
No. 507V.	Length, 12 inches, ground face and ends, grooved base, double plumb, japanned body.	Price, each..... (NICEST)	1.75
No. 607V.	Length, 12 inches, ground face and ends, grooved base, double plumb, japanned body, nickeled edges.	Price, each..... (NALT)	2.00
No. 509V.	Length, 18 inches, ground face and ends, grooved base, double plumb, japanned body.	Price, each..... (NEGUS)	2.00
No. 609V.	Length, 18 inches, ground face and ends, grooved base, double plumb, japanned body, nickeled edges.	Price, each..... (NETHER)	2.25
No. 510V.	Length, 24 inches, ground face and ends, grooved base, double plumb, japanned body.	Price, each..... (NECTAR)	2.25
No. 610V.	Length, 24 inches, ground face and ends, grooved base, double plumb, japanned body, nickeled edges.	Price, each..... (NASAL)	2.50

Packed one in a box.

Engineers' Iron Level

Patented October 27, 1896

With Double Plumb



The device shown in the cut will give accurately the rise and fall of piping or shafting of any description. It is fitted with a double plumb, and the slant of uprights can also be taken. It is graduated by sixteenths up to $\frac{1}{4}$ inch, giving all the variation usually required on work of this character.

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The faces and sides of the Level are accurately ground, and the device for measuring the slant can be placed in such a position that the working of the Level for ordinary purposes is in no way interfered with.

No. 526.	Length, 12 inches, japan finish.		
	Price, each.....	(NOOSE)	\$2.25
No. 626.	Length, 12 inches, japan body, nickel-plated face and edges.	Price, each.....	(NADLE) 2.50
No. 528.	Length, 24 inches, japan finish.		
	Price, each.....	(NUDER)	3.00
No. 628.	Length, 24 inches, japan finish, nickel-plated face and edges.	Price, each.....	(NUCKLE) 3.50

Packed one in a box.

Adjustable Bench Levels

With Plain Vials

All the Levels shown on this page are so constructed that they admit of close and accurate adjustment, and, when so adjusted, are not liable to get out of true, as the vials are set in tubes having solid ends which are firmly clamped to base. The tubes are nickel plated, the bases are finished as noted below.



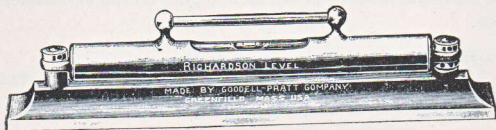
		Price, Each
No. 514.	Length, 4 inches, ground base, japanned.....(NAPTHA)	\$1.00
No. 614.	Length, 4 inches, ground base, nickeled.....(NAPKIN)	1.25



		Price, Each
No. 515.	Length, 6 inches, ground base, japanned.....(NATION)	\$1.25
No. 615.	Length, 6 inches, ground base, nickeled.....(NATIVE)	1.50
No. 516.	Length, 8 inches, ground base, japanned.....(NATTY)	1.50
No. 616.	Length, 8 inches, ground base, nickeled.....(NAVAL)	1.75

Adjustable Bench Levels

With Plain Vials and Handles



The Handles upon these Levels will be found better and more convenient protectors than the slide covers sometimes used.

		Price, Each
No. 715.	Length, 6 inches, ground base, japanned.....(NEAT)	\$1.75
No. 815.	Length, 6 inches, ground base, nickeled.....(NECK)	2.00
No. 716.	Length, 8 inches, ground base, japanned.....(NEEDLE)	2.00
No. 816.	Length, 8 inches, ground base, nickeled.....(NEXT)	2.25
No. 717.	Length, 12 inches, ground base, japanned.....(NEUTER)	2.50
No. 817.	Length, 12 inches, ground base, nickeled.....(NICKLE)	2.75
No. 718.	Length, 18 inches, ground base, japanned.....(NOBLY)	3.00
No. 818.	Length, 18 inches, ground base, nickeled.....(NOISE)	3.25

All the above packed one in a box.

Adjustable Bench Levels

With Ground and Graduated Vials and Handles

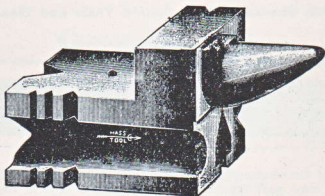


The line of Levels shown and described on this page will meet the requirements of the most particular trade. The glasses used in them are carefully ground and accurately graduated; they can be adjusted when necessary. The handle not only adds to the attractiveness of the tool, but acts as a protector as well; on all the larger sizes the supports for the handle are fastened directly to the base, so that the tube containing the vial is not disturbed in handling; where accurate work is desired, this feature is particularly valuable, as it enables the operator to handle the Level without the danger of affecting its accuracy by the heat of his hand.

No. 719.	Length, 4 inches, ground base, ground and graduated vial, handle and tube nickeled, base japanned.	Price, each.....(NOON)	\$2.50
No. 819.	Length, 4 inches, ground base, ground and graduated vial, handle, tube, and base nickel plated.	Price, each.....(NOOK)	2.75
No. 720.	Length, 6 inches, ground base, ground and graduated vial, handle and tube nickeled, base japanned.	Price, each.....(NORSE)	3.50
No. 820.	Length, 6 inches, ground base, ground and graduated vial, handle, tube, and base nickel plated.	Price, each.....(NOTARY)	3.75
No. 721.	Length, 8 inches, ground base, ground and graduated vial, handle and tube nickeled, base japanned.	Price, each.....(NOTCH)	4.00
No. 821.	Length, 8 inches, ground base, ground and graduated vial, handle, tube, and base nickel plated.	Price, each.....(NUMB)	4.25
No. 722.	Length, 12 inches, ground base, ground and graduated vial, handle and tube nickeled, base japanned.	Price, each.....(NOTICE)	5.00
No. 822.	Length, 12 inches, ground base, ground and graduated vial, handle, tube, and base nickel plated.	Price, each.....(NUDGE)	5.25
No. 723.	Length, 18 inches, ground base, ground and graduated vial, handle and tube nickeled, base japanned.	Price, each.....(NOVEL)	7.50
No. 823.	Length, 18 inches, ground base, ground and graduated vial, handle, tube, and base nickel plated.	Price, each.....(NOUN)	7.75

All above packed one in a box.

Universal Bench Anvils



These little Anvils will be found very convenient and practical for use upon any tool maker's bench; they have planed and squared surfaces, milled grooves and slots; in fact, the faces of the tool are sufficiently accurate to admit of its being used as a surface plate for laying out small work.

No. 110. Size, $4\frac{3}{4} \times 2\frac{1}{4} \times 2\frac{1}{4}$ inches. Price, each (ACME) \$1.50
Weight, 2 pounds.

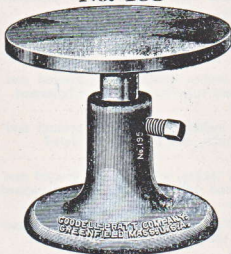
No. 111. Size, $6 \times 3 \times 3$ inches. Price, each (ANCHOR) 2.50
Weight, 5 pounds.

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Adjustable Bench Table

No. 195



This little device is a fitting companion for the Bench Anvils above shown. It will be found very convenient on a machinist's workbench. Its height can be varied from $4\frac{1}{2}$ to $6\frac{1}{2}$ inches and it is 5 inches in diameter. It has a turned and polished top, practically true, although we do not pretend that it is equal to a Surface Plate; in proportion to the price charged it represents equal value. Price, each (TEMPLET) \$1.00

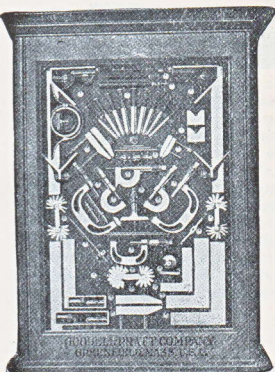
Weight, $3\frac{1}{4}$ pounds.

Goodell-Pratt Company

"Mass. Tool Co." Brand

Dealers' Display and Stock Cabinet

FRONT



Made of quarter-sawed oak, beautifully finished, with opening door at back and spacious shelves.

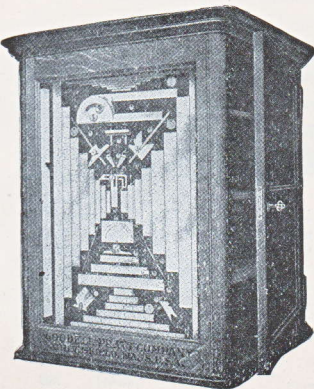
Size of case, 20 x 20 x 30 inches high.



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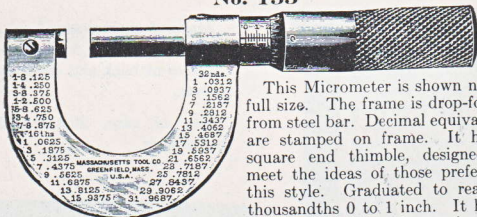
RIGHT



LEFT AND BACK

On application we shall be glad to make a show case proposition to any hardware merchant.

One-inch Micrometer Caliper No. 155



This Micrometer is shown nearly full size. The frame is drop-forged from steel bar. Decimal equivalents are stamped on frame. It has a square end thimble, designed to meet the ideas of those preferring this style. Graduated to read in thousandths 0 to 1 inch. It has a hard cast steel spindle running in a

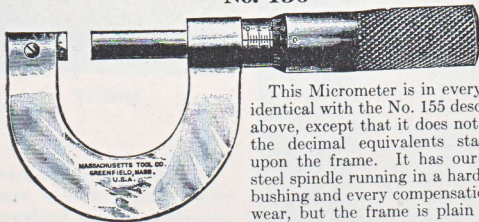
hard steel bushing; a hardened steel anvil having face, shoulder, and stem in perfect alignment with the spindle, and admitting of accurate adjustment from this end; in fact, it is exactly the same as the No. 12 shown on page 278, except for the eccentric locking device.

Price, each.....(MATIN) \$4.50
Price of leather case.....(MORE) .50

Metric

No. 155 M. For measurements by $\frac{1}{100}$ mm. to 25 mm.
Prices same as No. 155.

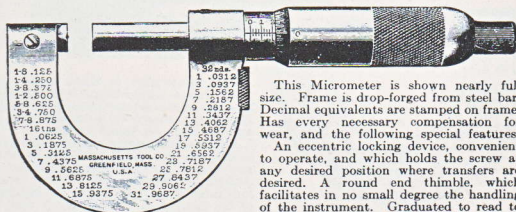
One-inch Micrometer Caliper No. 156



This Micrometer is in every way identical with the No. 155 described above, except that it does not have the decimal equivalents stamped upon the frame. It has our hard steel spindle running in a hard steel bushing and every compensation for wear, but the frame is plain without figures.

Price, each.....(MASTIC) \$4.25
Price of leather case.....(MORE) .50

One-inch Micrometer Caliper No. 2



This Micrometer is shown nearly full size. Frame is drop-forged from steel bar. Decimal equivalents are stamped on frame. Has every necessary compensation for wear, and the following special features:

An eccentric locking device, convenient to operate, and which holds the screw at any desired position where transfers are desired. A round end thimble, which facilitates in no small degree the handling of the instrument. Graduated to read to thousandths, 0 to 1 inch. A HARDENED

TOOL STEEL SPINDLE running in a HARDENED BUSHING, obviating all possible chance of roughing up or wear. A hardened steel anvil with face, shoulder, and stem in perfect alignment with spindle, and admitting of accurate adjustment from this end. Locked by an eccentric stud.

Price, each.....(MIC) \$5.50
Price of leather case.....(MAGIC) .50

Sent without case unless otherwise ordered.

Metric

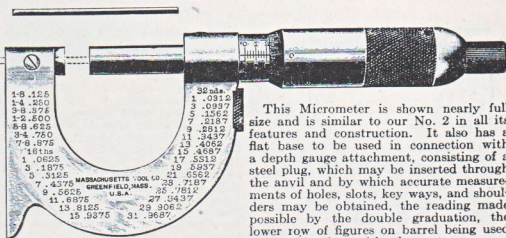
No. 2 M. For measurements by $\frac{1}{100}$ mm. to 25 mm.
Prices same as No. 2.

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One-inch Micrometer Caliper No. 3

With Depth Gauge Attachment



This Micrometer is shown nearly full size and is similar to our No. 2 in all its features and construction. It also has a flat base to be used in connection with a depth gauge attachment, consisting of a steel plug, which may be inserted through the anvil and by which accurate measurements of holes, slots, key ways, and shoulders may be obtained, the reading made possible by the double graduation, the lower row of figures on barrel being used in combination with the outer row on

thimble. This feature alone greatly enhances the value of this instrument while in no way detracting from its other fields of usefulness.

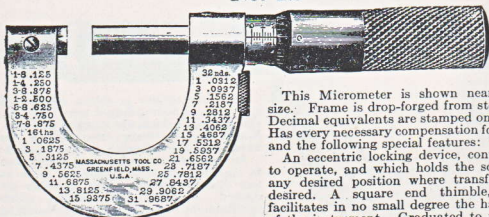
Price, each.....(MAGNET) \$6.00
Price of leather case.....(MAID) .50

Sent without case unless otherwise ordered.

Metric

No. 3 M. For measurements by $\frac{1}{100}$ mm. to 25 mm.
Prices same as No. 3.

One-Inch Micrometer Caliper No. 12



This Micrometer is shown nearly full size. Frame is drop-forged from steel bar. Decimal equivalents are stamped on frame. Has every necessary compensation for wear, and the following special features:

An eccentric locking device, convenient to operate, and which holds the screw at any desired position where transfers are desired. A square end thimble, which facilitates in no small degree the handling of the instrument. Graduated to read to

thousandths, 0 to 1 inch. A HARDENED TOOL STEEL SPINDLE running in a HARDENED BUSHING, obviating all possible chance of roughing up or wear. A hardened steel anvil with face, shoulder, and stem in perfect alignment with spindle, and admitting of accurate adjustment from this end. Locked by an eccentric stud.

Price, each.....(MARGIN) \$5.00
Price of leather case.....(MORE) .50

Sent without case unless otherwise ordered.

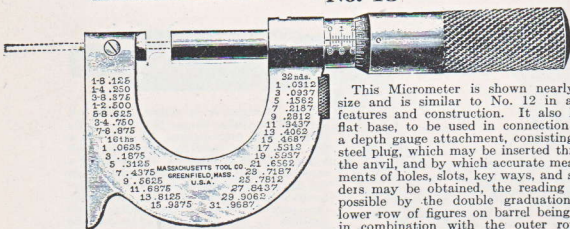
Metric

No. 12 M. For measurements by $\frac{1}{16}$ mm. to 25 mm.
Prices same as No. 12.

One-Inch Micrometer Caliper

Patented February 20, 1894

No. 13



This Micrometer is shown nearly full size and is similar to No. 12 in all its features and construction. It also has a flat base, to be used in connection with a depth gauge attachment, consisting of a steel plug, which may be inserted through the anvil, and by which accurate measurements of holes, slots, key ways, and shoulders may be obtained, the reading made possible by the double graduation, the lower row of figures on barrel being used in combination with the outer row on

thimble. This feature alone greatly enhances the value of this instrument while in no way detracting from its other fields of usefulness.

Price, each.....(MALT) \$5.50
Price of leather case.....(MEAD) .50

Sent without case unless otherwise ordered.

Metric

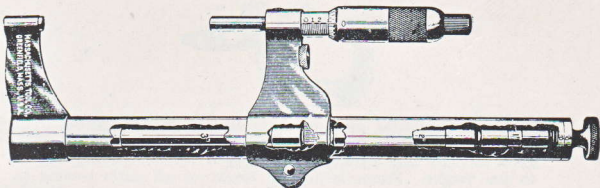
No. 13 M. For all measurements by $\frac{1}{16}$ mm. to 25 mm.
Price, each.....(MAGI) \$5.50
Price of leather case.....(MAGGOT) .50
Sent without case unless otherwise ordered.

Goodell-Pratt Company

"Mass. Tool Co." Brand

0 to Six-inch Beam Micrometer Caliper

No. 6



Patented December 20, 1892

The principle upon which this Micrometer is constructed is that of a series of Standard Plugs placed inside the tubular beam of the frame (which is slotted to allow a Key, fastened to the traveling head, to come in contact with the ends of the Standards). The location of the Traveler (which carries the measuring screw and thimble) is determined by which length of standard is placed first in advance in the tube towards the fixed head or anvil.

Following the Traveler are placed the other standards and the knurled Test Screw at the end of the beam turned until the 0 marks on it and the frame register alike.

ONE, TWO, and THREE inch Standard Plugs are furnished, which separately or in combination make possible any position in even inches from 0 to 6.

The hardened lead screw runs in a hard steel bushing and has a one-inch movement.

Thimble is graduated to read to $\frac{1}{1000}$ inch. The Micrometer has our eccentric locking device and means of compensation for wear.

Care should be taken in use to see that the standard plugs are carefully wiped after they are removed before being replaced, to insure the contact surfaces being free from dirt or grit, as otherwise the two 0 marks will not register.

The perfect accuracy of this standard plug system as applied to a Micrometer cannot fail to be perceived, and the fact that new plugs can be procured at any time should any necessity demand, without the bother and expense of having the entire instrument refitted, should not be lost sight of.

Price, each.....	(MCROM)	\$15.00
Price of leather case.....	(METEOR)	1.50

Sent in case unless otherwise ordered.

Metric

No. 6 M. For all measurements by $\frac{1}{100}$ mm. to 15 cm.,
Prices same as above.

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Two-inch Micrometer Caliper

No. 20



This Micrometer measures both lengths and diameters from 1 inch to 2 inches. Frame is of steel, made in I section, which gives strength and rigidity where needed without adding unduly to the weight. Frame is finished bright on all parts coming in contact in handling and in black enamel in depressed surfaces. The Spindle (hardened cast steel) runs in a hardened steel bushing inserted in end of frame. An eccentric locking device holds the measuring screw fixed in any position as desired. A hardened steel anvil of same size as measuring screw spindle, and in perfect alignment with it, is fastened by an eccentric stud. Outer end of frame is same size as lead screw and edges of measuring surface left square. It will gauge under shoulders or measure small projections. Graduated to read to thousandths, 1 to 2 inches. The Micrometer has every necessary means of adjustment for wear.

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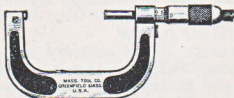
Price, each.....	(MAZE)	\$5.50
Price of leather case.....	(MARK)	.75

Metric

No. 20 M. For measurements by $\frac{1}{100}$ mm. from 25 mm. to 50 mm. Prices same as No. 20.

Three-inch Micrometer Caliper

No. 21



This Micrometer, similar in design and construction to No. 20, has a range from 2 to 3 inches, all dimensions.

Price, each.....	(MAT)	\$6.00
Price of leather case.....	(MAY)	1.00

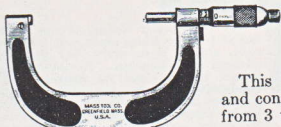
Metric

No. 21 M. For all measurements by $\frac{1}{100}$ mm. from 50 mm. to 75 mm. Prices same as No. 21.

Goodell-Pratt Company

"Mass. Tool Co." Brand

Four-inch Micrometer Caliper No. 22



This Micrometer, similar in design and construction to No. 21, has a range from 3 to 4 inches, all dimensions.

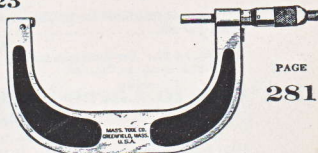
Price, each.....(MUFF) \$6.50
Price of leather case.....(MAN) 1.25

Metric

No. 22 M. For all measurements by $\frac{1}{100}$ mm. from 75 mm. to 100 mm. Prices same as No. 22.

Five-inch Micrometer Caliper No. 23

This Micrometer, similar in design and construction to No. 22, has a range from 4 to 5 inches, all dimensions.



PAGE

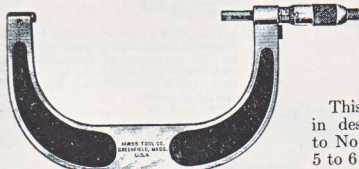
281

Price, each.....(MIST) \$7.25
Price of leather case.....(MORAL) 1.50

Metric

No. 23 M. For all measurements by $\frac{1}{100}$ mm. from 100 mm. to 125 mm. Prices same as No. 23.

Six-inch Micrometer Caliper No. 24



This Micrometer, similar in design and construction to No. 23, has a range from 5 to 6 inches, all dimensions.

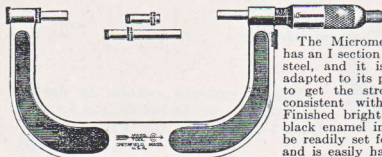
Price, each.....(MEEK) \$8.00
Price of leather case.....(MAUL) 1.50

No. 24 M. For all measurements by $\frac{1}{100}$ mm. from 125 mm. to 150 mm. Prices same as No. 24.

Goodell-Pratt Company

"Mass. Tool Co." Brand

0 to Three-inch Micrometer Caliper No. 14



The Micrometer Caliper shown above has an I section frame made from a special steel, and it is in every way perfectly adapted to its purposes. It was designed to get the strongest yet lightest frame consistent with the necessary stiffness. Finished bright on wearing surfaces and black enamel in depressed parts. It can be readily set for different measurements, and is easily handled for rapid work. It measures all sizes from 0 to 3 inches in thousandths. Three anvils are furnished, measuring from 0 to 1 inch, 1 inch to 2 inches, 2 inches to 3 inches. Each anvil is carefully hardened and is provided with special means of adjustment for wear. They are easily and quickly adjusted in the frame. It has our eccentric locking device, hardened cast steel lead screw, hard steel bushing in the end of the barrel, and every necessary compensation for wear.

Price, each.....(METAL) \$8.00
Price of leather case.....(MAIM) 1.00

Standards

A set of standards for testing accuracy of setting the anvils furnished if desired.
Price, per set.....\$2.00

Metric

No. 14 M. For measurements by $\frac{1}{16}$ mm. to 75 mm.
Prices same as No. 14.

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282 One to Three-inch Micrometer Caliper No. 141

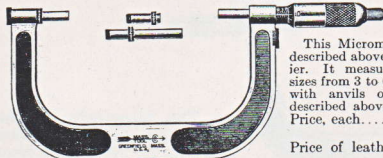
This Micrometer is of the same description as the No. 14 shown above, but is furnished without the long anvil. It therefore measures all sizes from 1 to 2 inches and from 2 to 3 inches.

Price, each.....(MARMOT) \$7.00
Price of leather case.....(MAIM) 1.00

Metric

No. 141 M. For measurements by $\frac{1}{16}$ mm. from 25 mm. to 75 mm.
Prices same as No. 141.

Three to Six-inch Micrometer Caliper No. 15



This Micrometer is similar to those described above, but is larger and heavier. It measures in thousandths all sizes from 3 to 6 inches, being furnished with anvils of different lengths as described above.

Price, each.....\$10.00
Price of leather case.....(MAW) 1.50
(MASTER)

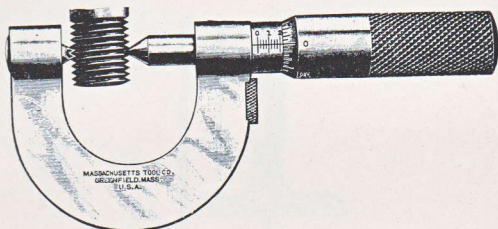
Standards

A set of standards for testing accuracy of setting the anvils furnished if desired.
Price, per set.....\$4.00

Metric

No. 15 M. For measurements by $\frac{1}{16}$ mm. from 75 mm. to 150 mm.
Prices same as No. 15.

Screw Thread Micrometers



These Calipers measure the actual V-thread on screws, taps, thread gauges, etc.; as the thread itself is measured the outside of the piece does not enter into consideration. The spindle point measures all pitches, but the fixed anvil is limited in its capacity, the same one not being correct for a great number of pitches, therefore they are made to cover each a certain range as listed below.

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One Inch

Price, Each

No. 33.	Range 8 to 13 Pitch.....	(MERE)	\$7.50
No. 33A.	Range 14 to 20 Pitch.....	(MERIT)	7.50
No. 33B.	Range 22 to 30 Pitch.....	(MEND)	7.50
No. 33C.	Range 32 to 40 Pitch.....	(MERGE)	7.50

Two Inch

No. 34.	Range 4½ to 7 Pitch.....	(MIRTH)	9.00
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One-inch Micrometer Head

No. 38



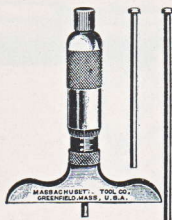
These Micrometer Heads have the same accurate screw and thimble of our regular tools and are most convenient for attachment to machines, etc., where fine adjustments are needed.

Length of extension of barrel, $\frac{5}{8}$ inch, diameter, $\frac{1}{4}$ inch.

Price, each.....(MOON) \$3.50

Micrometer Depth Gauge

No. 31



This Depth Gauge is designed for the most accurate measurements of depths of holes, slots, shoulders, projections, etc., distances from 0 to 3 inches. It has a one-inch movement of screw (a very valuable feature). Thimble graduated to read to thousandths. It is regularly furnished with three measuring rods with hardened ends. Each rod carries an adjusting device on head for individual compensation of wear. Base is hardened and ground. The different rods are inserted through a hole in the measuring screw (by removing the knurled end nut on the thimble) and brought to a positive bearing against a finished seat on end of screw; the end nut is then screwed on, thus assuring a positive end contact that does not depend on any device liable to be lost or worn by use. This method also leaves the top or end of thimble in its usual form regardless of what length of rod is in use.

Price, 2½-inch base.....	(MEIN)	\$4.50
Price of leather case.....	(MIGHT)	.75

No. 32

Same as above with 4-inch base.

Price, each.....	(MOUND)	\$5.00
Price of leather case.....	(MURK)	1.00

Metric

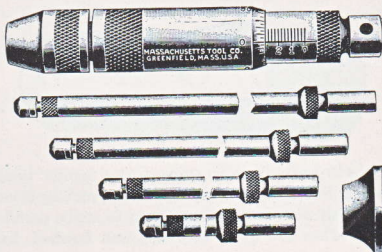
No. 31 M. Measurements by $\frac{1}{1000}$ mm. to 75 mm.
Prices same as No. 31.

No. 32 M. Measurements by $\frac{1}{1000}$ mm. to 75 mm.
Prices same as No. 32.

Sent without case unless otherwise ordered.

Inside Micrometer Gauge

No. 10



Patented May 8, 1894

This Micrometer Gauge differs from others commonly used in having the correctness of its measuring capacity and the absolute distance of one of its anvils from the other governed by the ring upon the measuring rod seating against the end of the chuck nut, thus doing away with the possibility of dirt collecting inside the chuck and preventing the rod from seating properly. Compensation for wear of rods is made by loosening binding chuck nut and adjusting hardened steel anvil in end of rod. This Micrometer has the same accurate screw and nut as all our other measuring devices. Particular attention is called to the fact that this tool is provided with a screw which has ONE inch RUN, greatly facilitating its use on large work. It is regularly furnished with four extension rods, admitting of accurate measurements from 3 to 7 inches.

Price, each.....	(MART)	\$4.00
Price of leather case.....	(MYRRH)	.50

Extra rods of any length furnished at 10 cents per inch.

No. 17

Similar in construction and design to No. 10, with measuring rods making the limit of measurement 3 inches to 10 inches.

Price of set.....	(MODE)	\$4.50
Price of leather case.....	(MONTH)	.75

No. 18

Similar in construction and design to No. 10, with measuring rods making the limit of measurement 10 inches to 18 inches.

Price of set.....	(MUST)	\$5.50
Price of leather case.....	(MONSTER)	1.00

No. 19

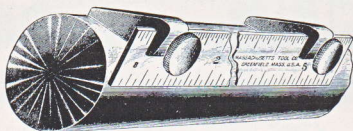
Similar in construction and design to No. 10, with measuring rods making the limit of measurement 3 inches to 18 inches.

Price of set.....	(MINT)	\$7.50
Price of leather case.....	(MISS)	1.50

Special lengths or combinations furnished to order.

Keyseating Rule Blocks

No. 77



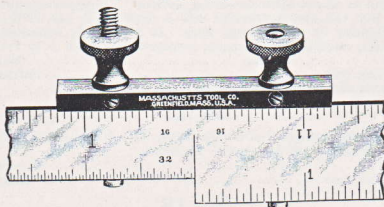
These Blocks enable one to convert any regular thickness rule or straight edge into a keyseat or parallel rule, making it unnecessary to cumber the kit with an extra appliance to scribe parallel lines on round stock. They are light, accurate, well finished, hardened.

Price, per pair.....(BOSS) \$0.60

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Steel Rule Clamps

No. 76

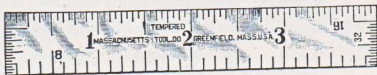


These Clamps are one of the most convenient and useful additions to a machinist's outfit. They will clamp and hold firmly, end to end, two rules of the same or different widths, enabling one to make two rules of short into one of double length, saving both the expense and bother of the long rules. They are made of steel and nicely finished and case hardened.

Price, to take rules $\frac{5}{8}$ to $1\frac{1}{4}$ inches wide.....(CRAMP) \$0.50

Tempered Steel Rules

We are now making all Rules and Square Blades with SHADED FIGURES, and as fast as our present stock is exhausted we shall discontinue light ones.



Our Rules are made from the best quality of crucible steel, carefully tempered, accurately graduated and ground. They are graduated on our perfected Dividing Engines, and have as high a finish and accuracy as are obtainable. Our Standard Yard or correcting Gauge, used in determining the accuracy of these instruments, was produced from the original Standards of Lord Whitworth. These standards have been subdivided with the greatest care and accuracy, and our Rules are as perfect reproductions as expert mechanics assisted by precision machinery can produce. One of the important points about a Rule is that it should give a correct measurement from the end to the first inch line. By our improved method of manufacture we can guarantee these measurements to be as near to absolute accuracy as it is possible commercially to make them. We manufacture Rules in a number of different types graduated both in English and Metric divisions as shown on the following pages.

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Graduations

No. 4	No. 7	No. 8	No. 16	
8	16	8	32	
16	32	32	64	
32	64	12	50	
64	100	48	100	
No. 10	No. 11	No. 12	No. 13	No. 14
32	64	50	8	8
64	100	100	16	32

Special Graduations

We are prepared to take contracts for special graduation of steel strips, platens, or templets, either soft or tempered stock, and prices for this work will be quoted on receipt of specifications and blue-prints.

Goodell-Pratt Company

"Mass. Tool Co." Brand

Heavy Tempered Rules

(RACE)



	Length	Approximate Width	Thickness	Price
No. 197	2 inches	$\frac{3}{4}$ inch	$\frac{1}{20}$ inch	\$0.25
No. 198	3 inches	$\frac{3}{4}$ inch	$\frac{1}{20}$ inch	.35
No. 199	4 inches	$\frac{3}{4}$ inch	$\frac{1}{20}$ inch	.45
No. 200	6 inches	1 inch	$\frac{1}{16}$ inch	.65
No. 201	9 inches	$1\frac{1}{4}$ inches	$\frac{1}{12}$ inch	1.00
No. 202	12 inches	$1\frac{1}{4}$ inches	$\frac{1}{12}$ inch	1.25
No. 203	18 inches	$1\frac{1}{4}$ inches	$\frac{1}{12}$ inch	2.00
No. 204	24 inches	$1\frac{1}{4}$ inches	$\frac{1}{12}$ inch	2.50
No. 205	36 inches	$1\frac{1}{2}$ inches	$\frac{1}{10}$ inch	5.00

Graduated full length in No. 4, No. 7, and No. 16 graduation.
Packed one half dozen in a box.

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Light Tempered Rules

(RAFT)



End graduated; 2 to 12 inches

	Length	Approximate Width	Thickness	Price
No. 209	1 inch	$\frac{1}{2}$ inch	$\frac{1}{20}$ inch	\$0.15
No. 210	2 inches	$\frac{1}{2}$ inch	$\frac{1}{20}$ inch	.25
No. 211	3 inches	$\frac{5}{8}$ inch	$\frac{1}{20}$ inch	.35
No. 212	4 inches	$\frac{5}{8}$ inch	$\frac{1}{20}$ inch	.45
No. 213	6 inches	$\frac{3}{4}$ inch	$\frac{1}{20}$ inch	.65
No. 214	9 inches	1 inch	$\frac{1}{16}$ inch	1.00
No. 215	12 inches	1 inch	$\frac{1}{16}$ inch	1.25
No. 216	18 inches	1 inch	$\frac{1}{16}$ inch	2.00
No. 217	24 inches	1 inch	$\frac{1}{16}$ inch	2.50
No. 218	36 inches	1 inch	$\frac{1}{16}$ inch	5.00

Graduated full length in No. 4, No. 7, and No. 16 graduation.
Packed one half dozen in a box.

Goodell-Pratt Company

"Mass. Tool Co." Brand

Semi-Flexible Rules

(RAM)



End graduated; 2 to 12 inches

	Length	Approximate Width	Thickness	Price
No. 249	1 inch	$\frac{1}{2}$ inch	$\frac{1}{50}$ inch	\$0.15
No. 250	2 inches	$\frac{1}{2}$ inch	$\frac{1}{50}$ inch	.25
No. 251	3 inches	$\frac{1}{2}$ inch	$\frac{1}{50}$ inch	.35
No. 252	4 inches	$\frac{1}{2}$ inch	$\frac{1}{50}$ inch	.45
No. 253	6 inches	$\frac{1}{2}$ inch	$\frac{1}{50}$ inch	.65
No. 254	9 inches	$\frac{1}{2}$ inch	$\frac{1}{50}$ inch	1.00
No. 255	12 inches	$\frac{1}{2}$ inch	$\frac{1}{50}$ inch	1.25
No. 256	18 inches	$\frac{1}{2}$ inch	$\frac{1}{50}$ inch	2.00
No. 257	24 inches	$\frac{1}{2}$ inch	$\frac{1}{40}$ inch	2.50
No. 258	36 inches	$\frac{1}{2}$ inch	$\frac{1}{40}$ inch	5.00

Graduated full length in No. 4 and No. 7 graduation.

Packed one half dozen in a box.

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Flexible Rules

(RASP)



Graduated on one side only

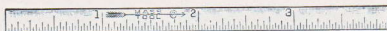
	Length	Approximate Width	Thickness	Price
No. 260	1 inch	$\frac{5}{16}$ inch	$\frac{1}{100}$ inch	\$0.15
No. 261	2 inches	$\frac{5}{16}$ inch	$\frac{1}{100}$ inch	.25
No. 262	3 inches	$\frac{5}{16}$ inch	$\frac{1}{100}$ inch	.35
No. 263	4 inches	$\frac{5}{16}$ inch	$\frac{1}{100}$ inch	.45
No. 264	6 inches	$\frac{5}{16}$ inch	$\frac{1}{100}$ inch	.65
No. 265	9 inches	$\frac{5}{16}$ inch	$\frac{1}{100}$ inch	1.00
No. 266	12 inches	$\frac{5}{16}$ inch	$\frac{1}{100}$ inch	1.25
No. 267	18 inches	$\frac{5}{16}$ inch	$\frac{1}{100}$ inch	2.00
No. 268	24 inches	$\frac{5}{16}$ inch	$\frac{1}{100}$ inch	2.50
No. 269	36 inches	$\frac{5}{16}$ inch	$\frac{1}{100}$ inch	5.00

Graduated full length in No. 10, No. 11, and No. 12 graduation.

Packed one half dozen in a box.

Narrow Tempered Rules

(RARE)



Graduated one edge each side

	Length	Approximate Width	Thickness	Price
No. 270	1 inch	$\frac{1}{4}$ inch	$\frac{1}{20}$ inch	\$0.15
No. 271	2 inches	$\frac{1}{4}$ inch	$\frac{1}{20}$ inch	.25
No. 272	3 inches	$\frac{1}{4}$ inch	$\frac{1}{20}$ inch	.35
No. 273	4 inches	$\frac{1}{4}$ inch	$\frac{1}{20}$ inch	.45
No. 274	6 inches	$\frac{1}{4}$ inch	$\frac{1}{20}$ inch	.65
No. 275	9 inches	$\frac{1}{4}$ inch	$\frac{1}{20}$ inch	1.00
No. 276	12 inches	$\frac{1}{4}$ inch	$\frac{1}{20}$ inch	1.25

Graduated full length in No. 10, No. 11, and No. 12 graduation.
Packed one half dozen in a box.

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Hook Rules



This addition applied to one of our Tempered Rules will be found most convenient in taking measurements over rounded corners, or through the hubs of wheels or pulleys, or in setting inside calipers and dividers. Hook can be readily detached from rule, to which it is fastened by means of an eccentric bolt.

Both hook and bolt are hardened.

Furnished in following sizes:

No. 70.	4-inch, price each.....	(RAKE)	\$0.80
No. 71.	6-inch, price each.....	(RAFFLE)	1.00
No. 72.	9-inch, price each.....	(RAZE)	1.40
No. 73.	12-inch, price each.....	(READ)	1.75

Graduated No. 4 or No. 7 graduation.

Goodell-Pratt Company

"Mass. Tool Co." Brand

Tempered Steel Straight Edges

(SAFE)



Accurately ground. Edges parallel. Surfaces polished. Not graduated.

	Length	Approximate Width	Thickness	Price
No. 300	6 inches	1 inch	$\frac{3}{16}$ inch	\$0.60
No. 301	9 inches	1 inch	$\frac{3}{16}$ inch	.90
No. 302	12 inches	$1\frac{1}{2}$ inches	$\frac{3}{16}$ inch	1.25
No. 303	18 inches	$1\frac{1}{2}$ inches	$\frac{3}{16}$ inch	2.00
No. 304	24 inches	$1\frac{1}{2}$ inches	$\frac{3}{16}$ inch	2.75
No. 305	36 inches	2 inches	$\frac{1}{4}$ inch	5.00

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Tempered Steel Bevel Straight Edges

(SURE)



Beveled on one edge only. Beveled edge, $\frac{1}{16}$ inch thick. Surfaces polished. Not graduated.

	Length	Approximate Width	Thickness	Price
No. 320	12 inches	$1\frac{1}{2}$ inches	$\frac{3}{16}$ inch	\$1.50
No. 321	18 inches	$1\frac{1}{2}$ inches	$\frac{3}{16}$ inch	2.50
No. 322	24 inches	$1\frac{1}{2}$ inches	$\frac{3}{16}$ inch	3.50
No. 323	36 inches	2 inches	$\frac{1}{4}$ inch	6.00

Metric Graduation Rules

Standard Tempered Steel

(RAP)



	Length	Approximate Width	Thickness	Price
No. 222	5 cm.	$\frac{1}{2}$ inch	$\frac{1}{20}$ inch	\$0.25
No. 223	10 cm.	$\frac{1}{2}$ inch	$\frac{1}{20}$ inch	.45
No. 224	15 cm.	$\frac{3}{8}$ inch	$\frac{1}{20}$ inch	.65
No. 225	20 cm.	$\frac{3}{4}$ inch	$\frac{1}{20}$ inch	.85
No. 226	25 cm.	1 inch	$\frac{1}{16}$ inch	1.05
No. 227	30 cm.	1 inch	$\frac{1}{16}$ inch	1.25
No. 228	40 cm.	1 inch	$\frac{1}{16}$ inch	1.65
No. 229	50 cm.	1 inch	$\frac{1}{16}$ inch	2.00
No. 230	60 cm.	$1\frac{1}{4}$ inches	$\frac{1}{12}$ inch	4.00
No. 231	80 cm.	$1\frac{1}{4}$ inches	$\frac{1}{12}$ inch	5.60
No. 232	1 m.	$1\frac{1}{4}$ inches	$\frac{1}{12}$ inch	7.00

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Packed one half dozen in a box.

Metric Graduation Rules

Semi-Flexible Tempered Steel

(RING)



	Length	Approximate Width	Thickness	Price
No. 289	5 cm.	$\frac{1}{2}$ inch	$\frac{1}{50}$ inch	\$0.25
No. 290	10 cm.	$\frac{1}{2}$ inch	$\frac{1}{50}$ inch	.45
No. 291	15 cm.	$\frac{3}{8}$ inch	$\frac{1}{50}$ inch	.65
No. 292	20 cm.	$\frac{3}{8}$ inch	$\frac{1}{50}$ inch	.85
No. 293	25 cm.	$\frac{3}{4}$ inch	$\frac{1}{50}$ inch	1.05
No. 294	30 cm.	$\frac{3}{4}$ inch	$\frac{1}{50}$ inch	1.25
No. 295	40 cm.	$\frac{3}{4}$ inch	$\frac{1}{50}$ inch	1.65
No. 296	50 cm.	$\frac{3}{4}$ inch	$\frac{1}{50}$ inch	2.00
No. 297	60 cm.	$\frac{7}{8}$ inch	$\frac{1}{40}$ inch	4.00
No. 298	80 cm.	$\frac{7}{8}$ inch	$\frac{1}{40}$ inch	5.60
No. 299	1 m.	$\frac{7}{8}$ inch	$\frac{1}{40}$ inch	7.00

Packed one half dozen in a box.

Goodell-Pratt Company

"Mass. Tool Co." Brand

Metric Graduation Rules

Flexible Tempered Steel

(REEF)



	Length	Approximate Width	Thickness	Price
No. 233	5 cm.	$\frac{5}{8}$ inch	$\frac{1}{100}$ inch	\$0.25
No. 234	10 cm.	$\frac{5}{8}$ inch	$\frac{1}{100}$ inch	.45
No. 235	15 cm.	$\frac{5}{8}$ inch	$\frac{1}{100}$ inch	.65
No. 236	20 cm.	$\frac{5}{8}$ inch	$\frac{1}{100}$ inch	.85
No. 237	25 cm.	$\frac{5}{8}$ inch	$\frac{1}{100}$ inch	1.05
No. 238	30 cm.	$\frac{5}{8}$ inch	$\frac{1}{100}$ inch	1.25
No. 239	40 cm.	$\frac{5}{8}$ inch	$\frac{1}{100}$ inch	1.65
No. 240	50 cm.	$\frac{5}{8}$ inch	$\frac{1}{100}$ inch	2.00
No. 241	60 cm.	$\frac{5}{8}$ inch	$\frac{1}{100}$ inch	4.00
No. 242	80 cm.	$\frac{5}{8}$ inch	$\frac{1}{100}$ inch	5.60
No. 243	1 m.	$\frac{5}{8}$ inch	$\frac{1}{100}$ inch	7.00

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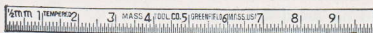
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Graduated 1 corner $\frac{1}{2}$ mm., 1 corner 1 mm.

Packed one half dozen in a box.

Narrow Tempered Rules

(RUG)

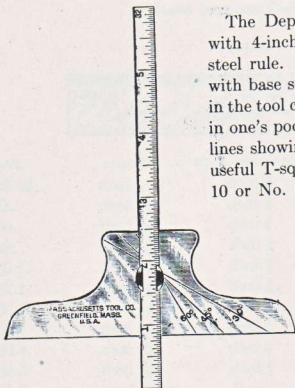


	Length	Approximate Width	Thickness	Price
No. 280	10 cm.	$\frac{1}{4}$ inch	$\frac{1}{20}$ inch	\$0.45
No. 281	15 cm.	$\frac{1}{4}$ inch	$\frac{1}{20}$ inch	.65
No. 282	20 cm.	$\frac{1}{4}$ inch	$\frac{1}{20}$ inch	.85
No. 283	30 cm.	$\frac{1}{4}$ inch	$\frac{1}{20}$ inch	1.25

Graduated 1 edge $\frac{1}{2}$ mm., 1 edge 1 mm.

Packed one half dozen in a box.

Rule Depth Gauge



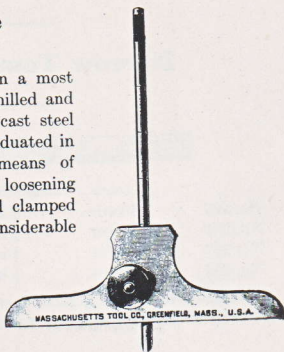
The Depth Gauge illustrated is made with 4-inch or 6-inch narrow tempered steel rule. Blade can be turned parallel with base so as to occupy but little room in the tool chest, or it can easily be carried in one's pocket. Head is graduated with lines showing 30°, 45°, 60°. It makes a useful T-square. Rule graduated in No. 10 or No. 11 graduation.

	Price
No. 79. 4-inch (GREAT)	\$1.10
No. 80. 6-inch (GALE)	1.25
Metric	
No. 79M. 10 cm. rule	\$1.10
No. 80M. 15 cm. rule	1.25

Depth Gauge

No. 64

This Gauge is constructed in a most thorough manner. Base line milled and ground. Rod is best quality cast steel with point hardened and is graduated in half inches. Tightened by means of knurled nut and screw. By loosening screw, rod may be turned and clamped parallel to base, a feature of considerable convenience in many instances.



Price, each (GOOD) \$0.75

Goodell-Pratt Company

Carpenters' Combination Square

Hard Cast Iron Head. Steel Blade

No. 666



This Square is designed particularly for carpenters' use; it is graduated in 8ths, 32ds, 12ths, and 48ths. This tool is well made, well finished, and will stand the test for accuracy; the present price at which they are sold brings them within the reach of every carpenter, and for the carpenter's kit they have become indispensable.

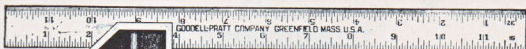
	Price, Each		Price, Each
9 inch..... (VASE)	\$1.25	18 inch..... (VALE)	\$2.25
12 inch..... (VANE)	1.50	24 inch..... (VARN)	2.75

Packed one in a box,

Combination Square

Hard Cast Iron Heads. Steel Blade

No. 667



This tool is in every way identical with the one shown above, except that it has the additional equipment of a center head; graduated in 8ths, 16ths, 32ds, and 64ths; we can, however, furnish same graduation as in No. 666, if desired.

	Price, Each		Price, Each
9 inch..... (WELD)	\$1.75	18 inch..... (WILD)	\$2.75
12 inch..... (WALD)	2.00	24 inch..... (WOLD)	3.25

Packed one in a box.

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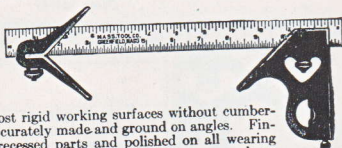
Goodell-Pratt Company

"Mass. Tool Co." Brand

Combination Square Steel Heads. Tempered Steel Blades.

The Combination Squares illustrated above are intended to fill every need in this class of tools.

Heads are of steel, designed so as to give the most rigid working surfaces without cumbersome weight. They are accurately made and ground on angles. Finished in black enamel in recessed parts and polished on all wearing surfaces. Blades are of crucible steel with a spring temper and are accurately graduated. They are fastened to the head by round cornered bolts, which slide in a round clamping groove in the blade, leaving it stronger than with the old-fashioned square one and much less liable to collect dirt and get out of true.



With Center Head		Price
No. 161. Size 6 inches	(SCRIP)	\$2.00
No. 162. Size 9 inches	(SEAT)	2.25
No. 163. Size 12 inches	(SELF)	2.50
No. 164. Size 18 inches	(SEW)	3.25
No. 165. Size 24 inches	(SEX)	3.75

Without Center Head		Price
No. 171. Size 6 inches	(SHED)	\$1.50
No. 172. Size 9 inches	(SHAKE)	1.75
No. 173. Size 12 inches	(SHIN)	2.00
No. 174. Size 18 inches	(SHIELD)	2.75
No. 175. Size 24 inches	(SHELL)	3.25

Blades are furnished in the following graduations:

PAGE
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No. 4
8
16
32
64

No. 7
16
32
64
100

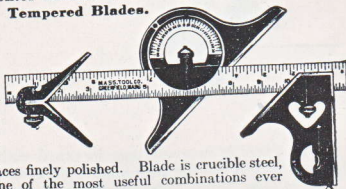
No. 8
8
32
12
48

Combination Sets

Steel Beam and Center Heads. Hard Gray Iron Protector.
Tempered Blades.

We here illustrate our Combination Square and Bevel Protractor. The square beam and center head are of steel, accurately made and with ground angles. Both are finished in black

enamel with wearing surfaces finely polished. Blade is crucible steel, tempered. The set is one of the most useful combinations ever devised for general mechanical operations.



		Price
No. 190. Size 9 inches, set complete	(CAROL)	\$4.25
No. 191. Size 12 inches, set complete	(CASK)	4.50
No. 192. Size 18 inches, set complete	(CARVE)	5.25
No. 193. Size 24 inches, set complete	(CAP)	5.75

Blades furnished graduated in either No. 4, No. 7, or No. 8 graduation as specified.

The above Combination Squares and Sets furnished in Metric graduation if preferred.

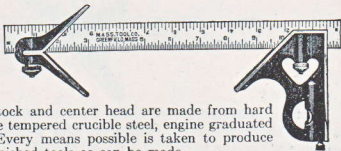
Goodell-Pratt Company

"Mass. Tool Co." Brand

Combination Squares

Hard Gray Iron Heads. Tempered Steel Blades.

The new line of Squares illustrated herewith are similar in style and in finish every way to those we have heretofore manufactured *except* that the stock and center head are made from hard gray cast iron. Blades are tempered crucible steel, engine graduated and accurately ground. Every means possible is taken to produce as accurately and finely finished tools as can be made.



With Center Heads

		Price
No. 361. Size 6 inches	(SAD)	\$1.50
No. 362. Size 9 inches	(SHAD)	1.75
No. 363. Size 12 inches	(SAW)	2.00
No. 364. Size 18 inches	(SAME)	2.75
No. 365. Size 24 inches	(SAGE)	3.25

Without Center Heads

		Price
No. 371. Size 6 inches	(SCOFF)	\$1.00
No. 372. Size 9 inches	(SAUCE)	1.25
No. 373. Size 12 inches	(SCOW)	1.50
No. 374. Size 18 inches	(SCOT)	2.25
No. 375. Size 24 inches	(SCULL)	2.75

Blades furnished in either No. 4, No. 7, or No. 8 graduation as specified.

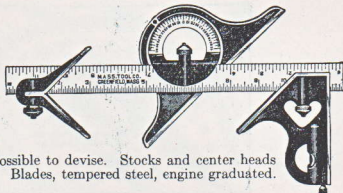
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Combination Sets

Hard Gray Iron Heads. Tempered Steel Blades

We herewith illustrate the above line of Squares in combination with our No. 180 Bevel Protractors, making as satisfactory and useful a set as it is possible to devise. Stocks and center heads finished in ebony enamel. Blades, tempered steel, engine graduated.

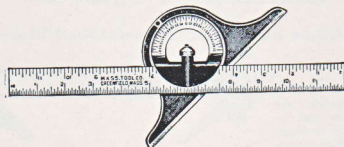


		Price
No. 390. Size 9 inches, set complete.....	(CAMP)	\$3.75
No. 391. Size 12 inches, set complete.....	(CHAFF)	4.00
No. 392. Size 18 inches, set complete.....	(CHAT)	4.75
No. 393. Size 24 inches, set complete.....	(CHEST)	5.25

Blades furnished in either No. 4, No. 7, or No. 8 graduation as specified.

The above Combination Squares and Sets furnished in Metric graduation if preferred.

Bevel Protractors

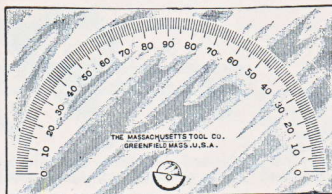


In the manufacture of these Protractors every attention is paid to have them accurate, complete, and well finished. The blade is held in a revolving turret by a round ended bolt. Turret is accurately fitted and engine graduated to 90° either side of zero, and every care taken to insure its being at right angle to face of head. It carries a level which is accurately set and fastened to the side of the turret. Blade is of crucible tempered steel. Head is about 7 inches long.

		Price
No. 180.	Protractor head only.....(POLE)	\$2.00
No. 181.	9 inch complete.....(PRONE)	2.75
No. 182.	12 inch complete.....(POUT)	3.00
No. 183.	18 inch complete.....(POST)	3.50
No. 184.	24 inch complete.....(PORT)	4.00

Blades furnished graduated in either No. 4, No. 7, or No. 8 graduation as specified.

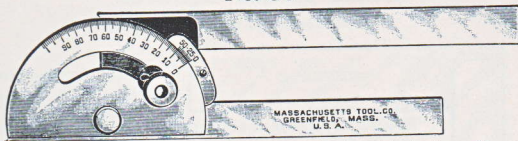
Protractor No. 51



This Protractor, accurately graduated in degrees, is one of the most useful adjuncts to a tool kit, as by its use in connection with our No. 59 Bevel, shown on page 320, one can lay off any desired angle without the necessity of owning any of the expensive Bevel Protractors. Its shape enables one to set bevel from either edge and gives the benefit of a positive 90° angle on corners, saving bothering with squares or triangles.

Price, each.....(PROVE) \$1.00

Draughtsman's Protractor No. 50



This Protractor has spring tempered Steel Blades about 9 inches long. The arc is 4 inches in diameter, graduated to degrees, with a Vernier reading to five minutes. It has a Binding Screw on one side that securely holds the Blades at any angle and enables it to be picked up and moved about readily. The Blades are fastened into the arc in such a manner as to make all parts come flush on the under side, thus making a perfectly flat surface for resting on the table. Either Blade can be used in contact with a T-square, giving any angle and its complement from 0 degree to 90 degrees. It forms a perfect adjustable triangle. Finished in dull nickel.

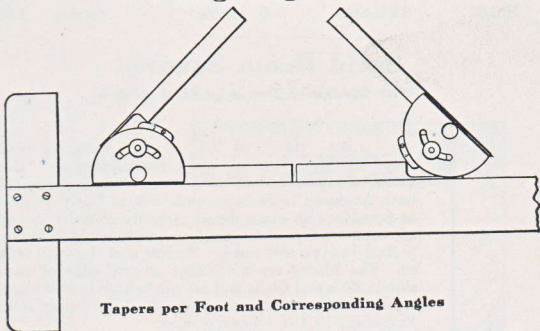
Price, in pasteboard box.....(PERFECT) \$4.00
Price, in polished wood case.....(PRIMA) 5.00

Blades of extra length furnished to order.

Showing Positions on Draughting Board

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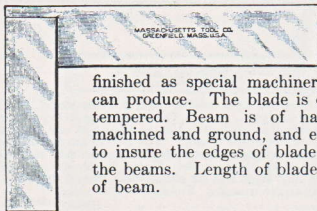


Tapers per Foot and Corresponding Angles

Taper per Foot	Included Angle	Angle with Center Line	Taper per Foot	Included Angle	Angle with Center Line
1- 8"	0°-36'	0°-18'	1 "	4°-45'	2°-23'
1- 4"	1°-12'	0°-36'	1 1/2 "	7°-08'	3°-34'
5-16"	1°-30'	0°-45'	1 3/4 "	8°-20'	4°-10'
3- 8"	1°-47'	0°-53'	2 "	9°-32'	4°-46'
7-16"	2°-05'	1°-02'	2 1/2 "	11°-54'	5°-57'
1- 2"	2°-23'	1°-11'	3 "	14°-16'	7°-08'
3- 4"	3°-35'	1°-47'	3 1/2 "	16°-36'	8°-18'
15-16"	4°-28'	2°-14'	4 "	18°-54'	9°-27'

Solid Beam Squares

With Tempered Steel Blades



These Squares are designed to be as accurate and well

finished as special machinery and skillful operatives can produce. The blade is of crucible steel carefully tempered. Beam is of hard gray iron, carefully machined and ground, and every means possible used to insure the edges of blade being at right angles to the beams. Length of blade given is from inner edge of beam.

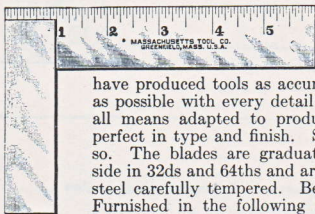
	Length of Blade	Length of Beam		Price
No. 86	3 inches	2 inches	(SEE)	\$1.25
No. 87	4 inches	2½ inches	(SEIZE)	1.50
No. 88	6 inches	3½ inches	(SERVE)	2.00
No. 89	9 inches	5 inches	(SET)	3.00
No. 90	12 inches	6 inches	(SENSE)	4.00

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Solid Beam Squares

With Graduated Tempered Steel Blades

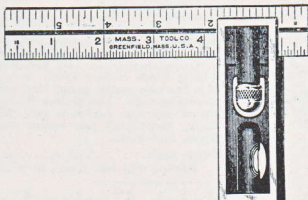


In designing and manufacturing this line of Squares we

have produced tools as accurate and as finely finished as possible with every detail carefully considered, and all means adapted to produce instruments that are perfect in type and finish. Square and that will stay so. The blades are graduated on one edge of each side in 32ds and 64ths and are made from crucible cast steel carefully tempered. Beam is of hard gray iron. Furnished in the following sizes:

	Length of Blade	Length of Beam		Price
No. 81	3 inches	2 inches	(SATE)	\$1.50
No. 82	4 inches	2½ inches	(SAND)	2.00
No. 83	6 inches	3½ inches	(SALT)	2.50
No. 84	9 inches	5 inches	(SACK)	3.50
No. 85	12 inches	6 inches	(SASH)	5.00

Sliding Blade Square



Tempered steel blade, gray iron stock with edges polished, and depressed parts finished in black enamel. Larger sizes have a level in the stock, making a great convenience for use in many places.

			Price
No. 150.	Size 4 inches.....	(STILE)	\$1.25
No. 151.	Size 6 inches.....	(STIR)	2.00
No. 152.	Size 9 inches.....	(STEM)	3.00
No. 153.	Size 12 inches.....	(STIFF)	4.00

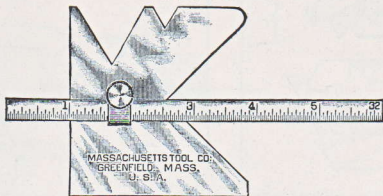
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Furnished with No. 4 or No. 7 graduation as specified.

Steel Center Square

No. 78



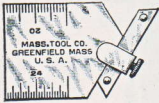
In this *all steel* tool we believe we have succeeded in producing the most, in the smallest compass and lightest weight, that has ever been offered to tool maker or machinist. It is a Center Square, T Square, Depth Gauge, or Center Gauge. Frame is steel. Rule, our regular tempered steel. 6 inches in length. Graduated No. 10 or No. 11 graduation.

Price..... (SUPREME) \$2.25

Adjustable Notch Center Gauge 60°

No. 44

(Tempered)



These Center Gauges are made of tempered crucible steel, and all angles are accurately ground. The notch, being made of separate pieces, insures a perfect angle to the extreme point. By tightening thumbscrew the Sliding Blade is held firmly in any position desired. It is the only center gauge that will fit any size inside threading tool. The Sliding Blade, together with the size of the tool, makes it very useful in many other ways. Graduated one corner each in 32ds, 24ths, 20ths, and 14ths.

Price, each.....(CALK) \$0.50
Packed one half dozen in a box.

Adjustable Notch Center Gauge 55°

No. 45

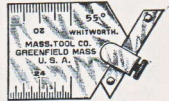
(Tempered)

English Standard Whitworth

Graduated same as No. 44.

Price, each.....(CARD) \$0.50

Packed one half dozen in a box.



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Adjustable Notch Center Gauge 60°

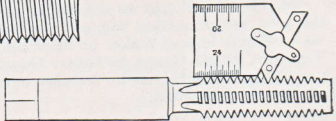
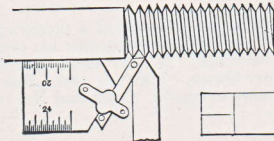
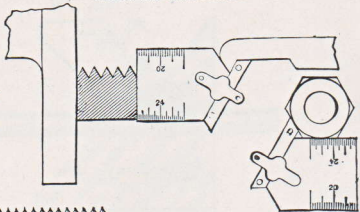
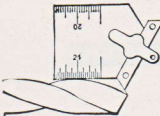
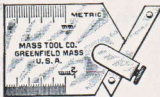
No. 46

(Tempered)

Graduated one corner 1/2 mm., 3 corners mm.

Price, each.....(CARAT) \$0.50

Packed one half dozen in a box.



Goodell-Pratt Company

"Mass. Tool Co." Brand

Improved Center Gauge 60°

No. 40



(Tempered)

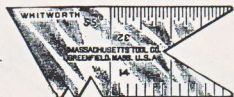
Graduated 1 corner each in 32ds, 24ths, 20ths, and 14ths.
Thickness, $\frac{1}{30}$ inch.

Price, each (CAB) \$0.35

Packed one half dozen in a box.

Whitworth Center Gauge 55°

No. 41



(Tempered)

Price, each (CAR) \$0.35

Packed one half dozen in a box.

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Metric Center Gauge 60°

No. 42



(Tempered)

Graduated 1 corner $\frac{1}{2}$ mm., 3 corners mm.

Price, each (CAKE) \$0.35

Packed one half dozen in a box.

Center Gauge 60°

No. 438



(Tempered)

Graduated 1 corner each in 32ds, 24ths, 20ths, and 14ths.

Price, each (CADET) \$0.35

Packed one half dozen in a box.

Goodell-Pratt Company

"Mass. Tool Co." Brand

Whitworth Center Gauge 55° No. 439

(Tempered)



Price, each..... (CAFE) \$0.35
Packed one half dozen in a box.

Metric Center Gauge 60° No. 440

(Tempered)



Price, each..... (CADI) \$0.35
Packed one half dozen in a box.

Single Point Scriber No. 58



Price, each..... (SCAN) \$0.20
Packed one fourth dozen in a box.

Double Point Scriber No. 61



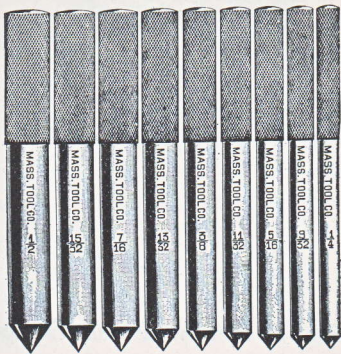
Has long knurled center, making a most satisfactory handle. Points are made of best quality cast steel rightly tempered, and are firmly fixed in handle but can be removed from center and replaced if there should ever be occasion.

Price, each..... (SCRATCH) \$0.25
Packed one fourth dozen in a box.

Precision Center Punches

No. 140

BODY SIZES



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$\frac{1}{4}$, $\frac{9}{32}$, $\frac{5}{16}$, $\frac{11}{32}$, $\frac{3}{8}$, $\frac{13}{32}$, $\frac{7}{16}$, $\frac{15}{32}$, $\frac{1}{2}$ inch diameter, 4 inches long.

These Punches were designed to fill a demand for a class of tools not heretofore manufactured. Varying by $\frac{1}{32}$ inch diameter, they give a wide range in capacity of work, and being of standard body size will center the bottom of holes for drilling, a process that has been before largely a question of experiment. In transferring from one piece of work to another, this tool does away with the use of scribe in locating center of hole. They are made of a fine grade of cast steel, and, in addition to their special adaptation, will do the work of an ordinary punch.

Put up in sets of 9 sizes in a box.

Price, per set. (PURE) \$2.00

Price, each. (PRY) .25

Goodell-Pratt Company

"Mass. Tool Co." Brand

Screw Pitch Gauge

No. 135



This Gauge has 22 pitches, viz.:

9, 10, 11, 11½, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40. V-thread.

Price, each (GAGE) \$1.00

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Metric Screw Pitch Gauge

No. 136



Similar in design to our No. 135. This Gauge has 20 pitches, based on distance center to center of the teeth given in millimeters and fractional parts of same, viz.:

.50, .60, .70, .75, .80, .90, 1.00, 1.10, 1.20, 1.25, 1.30, 1.40, 1.50, 1.60, 1.70, 1.75, 1.80, 1.90, 2.00, 2.50 mm.

Price, each (GAGE) \$1.00

Whitworth Screw Pitch Gauge

No. 137



This Gauge is made with somewhat larger sides and blades than our No. 135 and contains 26 pitches, made on Whitworth angles 55°.

PITCHES

4, 4½, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 19, 20, 22, 24, 25, 26, 28, 30, 32, 40, 48, 60.

Price, each.....(GEAR) \$1.25

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Whitworth Screw Pitch Gauge

No. 138



This Gauge is made with same size sides and blades as our No. 135 and contains 22 pitches, made on Whitworth angle 55°.

PITCHES

7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 19, 20, 22, 24, 25, 26, 28, 30, 32, 40, 48, 60.

Price, each.....(GAP) \$1.00

Screw Pitch Gauge

No. 437



This Gauge has 24 pitches, viz.

4, $4\frac{1}{2}$, 5, $5\frac{1}{2}$, 6, 7, 8, 9, 10, 11, $11\frac{1}{2}$, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30. V-thread.

Price, each (GASP) \$1.25

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Screw Pitch Gauge

No. 436



This Gauge has 30 pitches, and is of the same description as the No. 437 shown above.

PITCHES

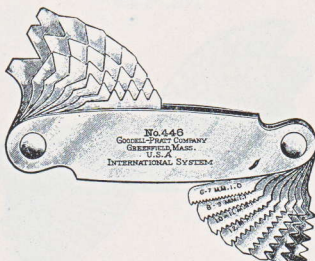
4, $4\frac{1}{2}$, 5, $5\frac{1}{2}$, 6, 7, 8, 9, 10, 11, $11\frac{1}{2}$, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42.

Price, each (GANG) \$1.50

Goodell-Pratt Company

"Mass. Tool Co." Brand

International Screw Pitch Gauge No. 446



This Gauge is made after the French International System showing 15 pitches with one extra leaf containing coarse and fine center gauge notches, both the pitch and the diameter of bolt are shown on each leaf. Pitches as follows:

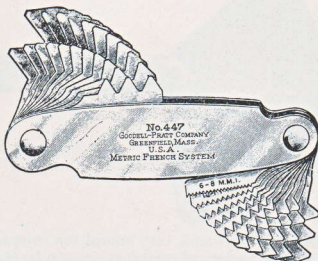
1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7 m.

Price, each..... (GASTRIC) \$1.00

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Metric French System Screw Pitch Gauge No. 447



This Gauge has 22 pitches, viz.:

1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10, 10.5, 11, 11.5 m.

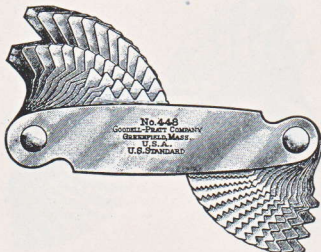
Price, each..... (GRAFT) \$1.50

Goodell-Pratt Company

"Mass. Tool Co." Brand

U. S. S. Screw Pitch Gauge

No. 448



This Gauge has 26 leaves, giving 25 pitches with one extra center gauge leaf. Pitches as follows:

$2\frac{1}{4}$, $2\frac{3}{8}$, $2\frac{1}{2}$, $2\frac{5}{8}$, $2\frac{3}{4}$, $2\frac{7}{8}$, 3, $3\frac{1}{8}$, $3\frac{1}{4}$, 4, $4\frac{1}{2}$, 5, $5\frac{1}{2}$, 6, 7, 8, 9, 10, 11,

12, 13, 14, 16, 18, 20.

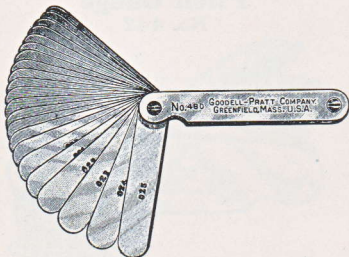
Price, each.....(GRUDGE) \$1.50

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Thickness or Feeler Gauge

No. 480



This Gauge will be found very useful for comparing or testing thicknesses; a great variety of combinations can be made up by using different leaves together. Each leaf is marked by thousandths. There are 24 leaves in all, from .002 to .025. Length over all, $2\frac{3}{4}$ inches.

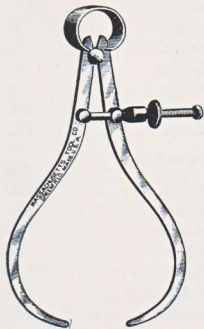
Price, each.....(CAW) \$1.50

Goodell-Pratt Company

"Mass. Tool Co." Brand

Outside Spring Calipers

Our line of Spring Calipers and Dividers, illustrated in the following pages, consists of those types and sizes most used by best mechanics. Their quality, design, and workmanship meet the most exacting demands, every pains possible being taken in the processes of manufacture to insure their being right in every way. The spring is stiff and properly tempered for the best service. Legs are of the best quality steel, nicely finished. The quick nut is of a type designed to give the longest service with the least trouble while in use, and slides freely on screw when tension of spring is removed without the bother of pulling it over the screw threads as in other types. All parts liable to wear are hardened



With Solid Nut			With Quick Nut		
No.	Size, inches	Price	No.	Size, inches	Price
500	2½	\$0.65	600	2½	\$0.80
501	3	.70	601	3	.85
502	4	.75	602	4	.90
503	5	.80	603	5	.95
504	6	.85	604	6	1.00
505	8	1.00	605	8	1.15
550	10	1.35	650	10	1.50

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Packed one fourth dozen in a box.

Inside Spring Calipers

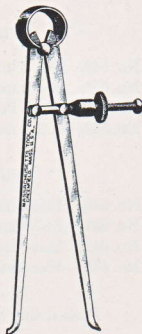
With Solid Nut

No.	Size	Price
No. 506.	Size 2½ inches.....	\$0.65
No. 507.	Size 3 inches.....	.70
No. 508.	Size 4 inches.....	.75
No. 509.	Size 5 inches.....	.80
No. 510.	Size 6 inches.....	.85
No. 511.	Size 8 inches.....	1.00
No. 560.	Size 10 inches.....	1.35

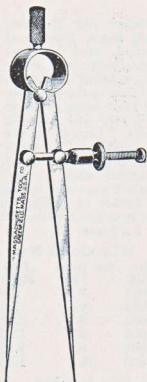
With Quick Nut

No.	Size	Price
No. 606.	Size 2½ inches.....	\$0.80
No. 607.	Size 3 inches.....	.85
No. 608.	Size 4 inches.....	.90
No. 609.	Size 5 inches.....	.95
No. 610.	Size 6 inches.....	1.00
No. 611.	Size 8 inches.....	1.15
No. 660.	Size 10 inches.....	1.50

Packed one fourth dozen in a box.



Spring Dividers



With Solid Nut

		Price
No. 512.	Size 2½ inches.....	\$0.65
No. 513.	Size 3 inches.....	.70
No. 514.	Size 4 inches.....	.75
No. 515.	Size 5 inches.....	.80
No. 516.	Size 6 inches.....	.85
No. 517.	Size 8 inches.....	1.00
No. 570.	Size 10 inches.....	1.35

With Quick Nut

		Price
No. 612.	Size 2½ inches.....	\$0.80
No. 613.	Size 3 inches.....	.85
No. 614.	Size 4 inches.....	.90
No. 615.	Size 5 inches.....	.95
No. 616.	Size 6 inches.....	1.00
No. 617.	Size 8 inches.....	1.15
No. 670.	Size 10 inches.....	1.50

Packed one fourth dozen in a box.

Hermaphrodite Spring Calipers

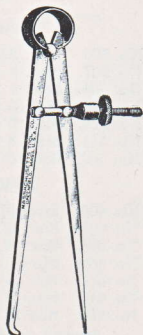
With Solid Nut

		Price
No. 540.	Size 3 inches.....	\$0.70
No. 541.	Size 4 inches.....	.75
No. 542.	Size 5 inches.....	.80
No. 543.	Size 6 inches.....	.85

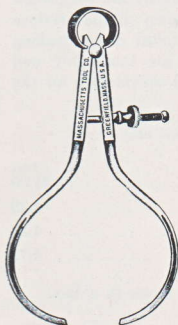
With Quick Nut

		Price
No. 640.	Size 3 inches.....	\$0.85
No. 641.	Size 4 inches.....	.90
No. 642.	Size 5 inches.....	.95
No. 643.	Size 6 inches.....	1.00

Packed one fourth dozen in a box.



Tool Makers' Outside Spring Calipers



The Calipers shown on this page are particularly adapted for tool makers' use, being designed for delicate and accurate work. The springs are strong and stiff; the spools are hardened; the legs, which are made from round stock, are rolled down to make them hard and rigid.

We recommend these tools for the finest class of work.

Furnished with solid nut only.

		Price
No. 732.	Size 2 inches.....	\$1.00
No. 733.	Size 3 inches.....	1.25
No. 734.	Size 4 inches.....	1.50
No. 736.	Size 6 inches.....	1.75

Packed one fourth dozen in a box.

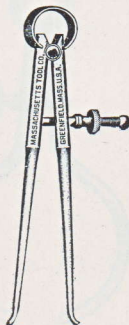
PAGE

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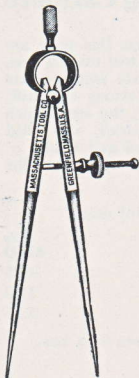
Tool Makers' Inside Spring Calipers

		Price
No. 742.	Size 2 inches.....	\$1.00
No. 743.	Size 3 inches.....	1.25
No. 744.	Size 4 inches.....	1.50
No. 746.	Size 6 inches.....	1.75

Packed one fourth dozen in a box.



Tool Makers' Spring Dividers



These Round Leg Dividers are companion tools to the Calipers shown on the previous page. The points are rolled down, making them extra hard; they are thoroughly well made and will be found satisfactory for the finest work.

Furnished with solid nut only.

		Price
No. 752.	Size 2 inches.....	\$1.00
No. 753.	Size 3 inches.....	1.25
No. 754.	Size 4 inches.....	1.50
No. 756.	Size 6 inches.....	1.75

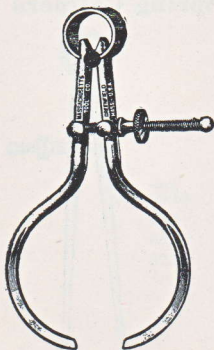
Packed one fourth dozen in a box.

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Outside Round Leg Spring Calipers

POST PATTERN



In bringing out the "Post Pattern" Round Leg Spring Calipers, in which the adjusting screw works through the post instead of through the legs, we are offering at a moderate price a Round Leg Spring Caliper of excellent design and attractive finish, quite as desirable in many instances as the more expensive tool makers' line.

		Price
No. 832.	Size 2 inches.....	\$0.90
No. 833.	Size 3 inches.....	1.00
No. 834.	Size 4 inches.....	1.10
No. 836.	Size 6 inches.....	1.30

Packed one fourth dozen in a box.

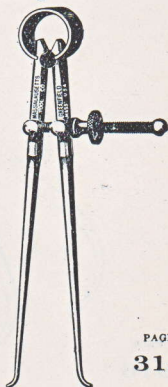
Inside Round Leg Spring Calipers

POST PATTERN

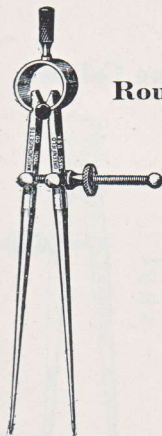
The "Post Pattern" Inside Spring Calipers are of the same design as the Outside Calipers of this pattern, and we are likewise offering them at moderate prices.

	Price
No. 842. Size 2 inches.....	\$0.90
No. 843. Size 3 inches.....	1.00
No. 844. Size 4 inches.....	1.10
No. 846. Size 6 inches.....	1.30

Packed one fourth dozen in a box.



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Round Leg Spring Dividers

POST PATTERN

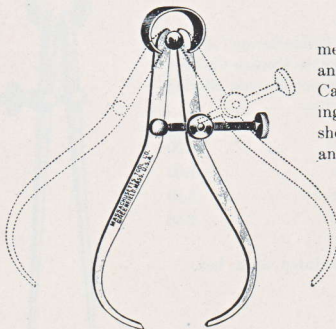
The Round Leg Spring Dividers of the "Post Pattern" are of the same design and operated in the same manner as the Outside and Inside Calipers of this pattern previously described.

	Price
No. 852. Size 2 inches.....	\$0.90
No. 853. Size 3 inches.....	1.00
No. 854. Size 4 inches.....	1.10
No. 856. Size 6 inches.....	1.30

Packed one fourth dozen in a box.

Outside Transfer Spring Calipers

Patented Feb. 17, 1903



This practical assortment of sizes in Outside and Inside Transfer Spring Calipers will act as a pleasing complement to the lines shown on the preceding and following pages.

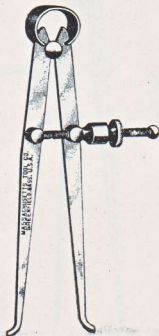
No.	Size, inches	Price
554	4	\$1.25
556	6	1.35
558	8	1.50

Packed one fourth dozen in a box.

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Inside Transfer Spring Calipers

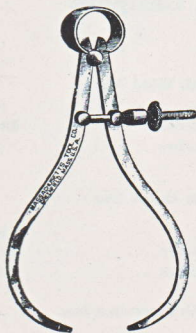
Patented Feb. 17, 1903



		Price
No. 544.	Size 4 inches.	\$1.25
No. 546.	Size 6 inches.	1.35
No. 548.	Size 8 inches.	1.50

Packed one fourth dozen in a box.

Outside Thread Spring Calipers



Ends flattened for calipering the diameter at the bottom of the thread of bolts, screws, etc.

With Solid Nut

		Price
No. 530.	Size 3 inches.....	\$0.70
No. 531.	Size 4 inches.....	.75
No. 532.	Size 5 inches.....	.80
No. 533.	Size 6 inches.....	.85

With Quick Nut

		Price
No. 630.	Size 3 inches.....	\$0.85
No. 631.	Size 4 inches.....	.90
No. 632.	Size 5 inches.....	.95
No. 633.	Size 6 inches.....	1.00

Packed one fourth dozen in a box.

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Inside Thread Spring Calipers

Points of these Calipers are shaped right for measuring diameters at bottom of threads.

With Solid Nut

		Price
No. 535.	Size 3 inches.....	\$0.70
No. 536.	Size 4 inches.....	.75
No. 537.	Size 5 inches.....	.80
No. 538.	Size 6 inches.....	.85

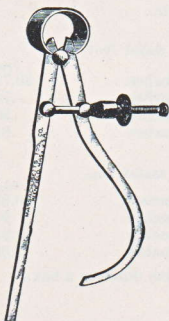
With Quick Nut

		Price
No. 635.	Size 3 inches.....	\$0.85
No. 636.	Size 4 inches.....	.90
No. 637.	Size 5 inches.....	.95
No. 638.	Size 6 inches.....	1.00

Packed one fourth dozen in a box.



Keyhole Spring Calipers



With Solid Nut

		Price
No. 525.	Size 3 inches.....	\$0.70
No. 526.	Size 4 inches.....	.75

With Quick Nut

		Price
No. 625.	Size 3 inches.....	\$0.85
No. 626.	Size 4 inches.....	.90

Packed one fourth dozen in a box.

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Thread Spring Calipers

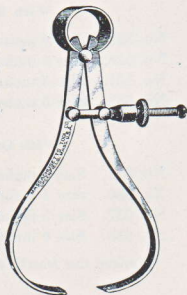
With Solid Nut

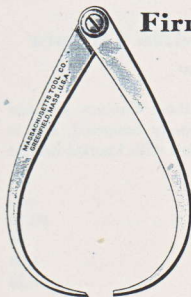
		Price
No. 519.	Size 3 inches.....	\$0.70
No. 520.	Size 4 inches.....	.75
No. 521.	Size 5 inches.....	.80

With Quick Nut

		Price
No. 619.	Size 3 inches.....	\$0.85
No. 620.	Size 4 inches.....	.90
No. 621.	Size 5 inches.....	.95

Packed one fourth dozen in a box.





Firm Joint Outside Calipers

These Calipers are made of a hard finished crucible steel and are stiff and solid. The firm joint is designed so as to give any desired degree of friction, maintaining a smooth, even tension as desired. Friction adjusting screw has hexagon head for wrench on *all* sizes. The sizes refer to the length of the different legs. Their capacity to measure is much greater than their ratings. Especial attention is called to the fine proportion of the different sizes.

		Price, Each
No. 400.	Size 3 inches outside	\$0.40
No. 401.	Size 4 inches outside	.50
No. 402.	Size 5 inches outside	.55
No. 403.	Size 6 inches outside	.65
No. 404.	Size 8 inches outside	.80
No. 405.	Size 10 inches outside	.90
No. 406.	Size 12 inches outside	1.00
No. 407.	Size 14 inches outside	1.50
No. 408.	Size 16 inches outside	1.75
No. 409.	Size 18 inches outside	2.10
No. 410.	Size 20 inches outside	2.50
No. 411.	Size 24 inches outside	3.00

Packed one fourth dozen in a box.

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Firm Joint Inside Calipers

		Price, Each
No. 420.	Size 3 inches inside	\$0.40
No. 421.	Size 4 inches inside	.50
No. 422.	Size 5 inches inside	.55
No. 423.	Size 6 inches inside	.65
No. 424.	Size 8 inches inside	.80
No. 425.	Size 10 inches inside	.90
No. 426.	Size 12 inches inside	1.00
No. 427.	Size 14 inches inside	1.50
No. 428.	Size 16 inches inside	1.75
No. 429.	Size 18 inches inside	2.10
No. 430.	Size 20 inches inside	2.50
No. 431.	Size 24 inches inside	3.00

Packed one fourth dozen in a box.



Firm Joint Hermaphrodite Caliper

With Adjustable Point



The adjustable point on these Calipers is made of the best crucible steel properly tempered, and is firmly fastened to the leg by bolt with knurled-headed nut.

		Price
No. 442.	Size 5 inches.....	\$0.70
No. 443.	Size 6 inches.....	.80
No. 444.	Size 8 inches.....	1.00
No. 445.	Size 10 inches.....	1.20

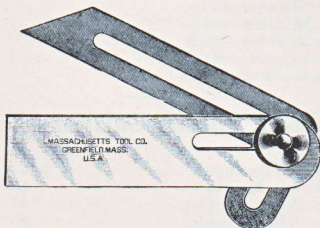
Packed one fourth dozen in a box.

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Improved Universal Bevel

No. 59



This cut shows our Improved Universal Bevel, 3 inches long, with offset blade that allows the measuring of all angles. The opposite side is perfectly flat, and one edge of base is solid, making it convenient to use in taking angles or working thin templets. It is a well finished and reliable tool.

Price, each..... (BARB) \$1.50

Surface Gauge

No. 115



This is one of the most efficient types of Surface Gauges ever made. The base is solid and stands square on the work. Spindle has a fine adjustment by means of screw with knurled-headed nut and after setting can be locked firmly by the tightening screw shown in cut. Base is iron finished in black enamel with wearing surfaces polished. Scriber made of tool steel carefully tempered. Gauge is 9 inches high.

Price, each.....(GARB) \$2.50

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Surface Gauge

No. 116



Like one shown above except that it is larger, having a heavier base, and is 12 inches high.

Price, each.....(GIVE) \$3.50



Surface Gauge

No. 56

A Gauge accurate and simple in construction, and for a moderate price. Base face is milled and finished as are the angles formed by the two lugs in front. Base is finished in enamel. Standard is highly polished steel, and scriber best drill rod. Fine adjustment by means of the milled nut and base screw. Can be used as a Depth Gauge, and for many cases makes a useful Scratch Gauge. Spindle is 8 inches long.

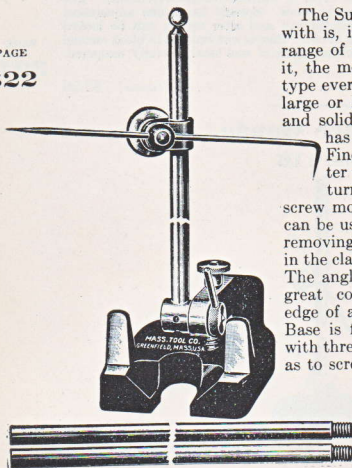
Price, each.....(GIST) \$1.25

Shipping weight, 1 pound.

Surface Gauge

No. 57

The Surface Gauge illustrated here-with is, in point of practical use and range of work that can be done with it, the most comprehensive one of its type ever offered to our mechanics for large or heavy duty. It has a large and solid base, 4 x 5 inches. Spindle has a movement of 180 degrees. Fine adjustment for setting, after tightening slide on spindle, by turning the knurled-headed nut on screw moving through long lever. It can be used as a Depth Gauge, or, by removing spindle and inserting scriber in the clamping stud, a Scratch Gauge. The angle milled on top of base is of great convenience in using against edge of a surface plate or planer bed. Base is finished in enamel, furnished with three 12-inch jointed standards so as to screw together for large work.



Price, each.....(GRUB) \$8.00

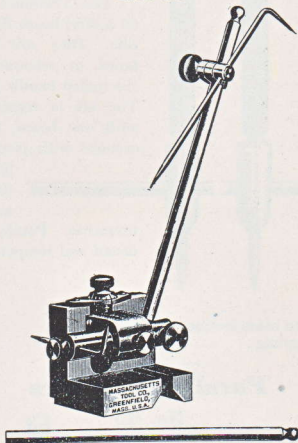
Weight, 6½ pounds.

Goodell-Pratt Company

"Mass. Tool Co." Brand

Universal Surface Gauge with Micrometer Adjustment

No. 55



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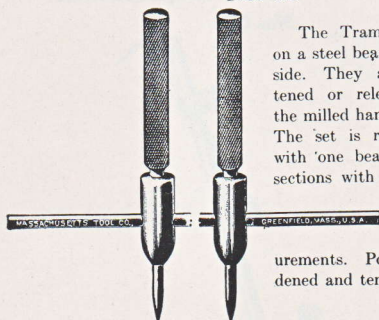
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Designed especially to meet the demands of the most critical mechanics, its range of capabilities is almost limitless. It is at once within itself a Surface Gauge, Depth Gauge, Marking Gauge, Trammel Points—Set or Height Gauge. At whatever angle the standard is set, the adjustment of the scriber is always *vertical* when used as a Surface Gauge, or *horizontal* when used as a Marking Gauge. Adjustment is by means of a slide (with compensating take-up for any wear) fed by a screw graduated to read to .001 inch. This screw is parallel with one base face and at 90 degrees with the other, making a Micrometer Surface, Depth, or Height Gauge. By removing the standard and spindle from the base, and using the two scribers with them, a most convenient set of Trammel Points is arranged. For low work remove the standard from base and use scriber in slide spindle. Has V-slot in one base for cylindrical work. Extra length standards (jointed for folding) can be furnished at small cost, so that circles of almost any diameter may be described to a nicety by means of the Micrometer Adjustment. Furnished as shown above, with two standards, 5 inches and 10 inches long, and two scribers.

Price. (GERM) \$5.00

Extension Beam Trammels

No. 62



The Trammels move freely on a steel beam flattened on one side. They are instantly fastened or released by rotating the milled handle part of a turn. The set is regularly furnished with one beam, but additional sections with couplings may be procured at any time to describe any stated measurements. Points carefully hardened and tempered.

PAGE

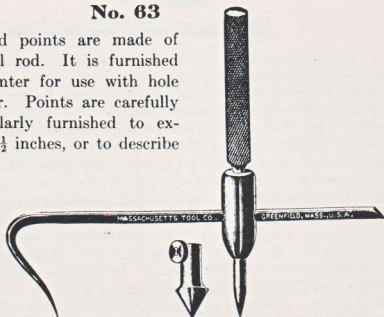
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Price.....	(TRUC)	\$1.25
Price, each extra beam section, 13 inch.....	(TERN)	.25
Price, each coupling.....	(TAKE)	.25

Parallel Dividers

No. 63

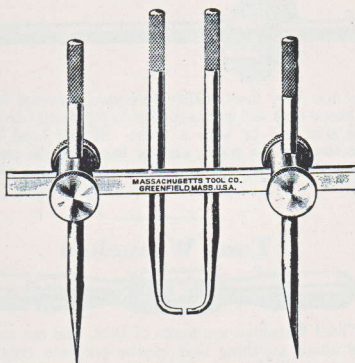
The beam and points are made of best quality drill rod. It is furnished with a pump center for use with hole of large diameter. Points are carefully tempered. Regularly furnished to extend from 0 to 3½ inches, or to describe a 7-inch circle.



Price, each.....	(DASH)	\$1.25
------------------	--------	--------

Precision Extension Steel Beam Trammels

No. 134



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This tool consists of a polished steel Beam, 16 inches long, flattened on one side; two movable Clamping Heads and a pair of Dividers made of the best quality cast steel with hardened points. The divider points pass through the clamping heads, where they are held lightly by friction springs, or locked fast by a turn of the knurled-headed screw.

The clamping heads are free to move on the beam without interfering with the adjustment of the divider points, or can be locked fast on the beam by turning a separate knurled-headed screw (a feature, by the way, peculiar to our Trammels alone). Fine adjustment is secured by rotating the divider points, which are made slightly eccentric.

It will be noted that caliper legs, as illustrated above, are not included with the tool as regularly furnished, but may be had for a slight additional charge.

	Price
One section with divider points..... (TEXT)	\$2.25
Extra beams, each 16 inches long..... (TEAR)	.25
Caliper points, per pair..... (TEMPT)	.50
Couplings, each, to join 2 bars..... (TALE)	.25

Tool Makers' Precision Scratch Gauge No. 60



Marker has very best quality tool steel, beveled scratch *point*. The only shape that will satisfactorily do the finest class of precision work, and that can be kept a *point*. Sliding head can be used either side towards the point, and by means of the angle milled in its edge can always be kept on a line level with the marker.

Price, each (GRAB) \$0.50

Tool Wrenches



These Tool Wrenches are made of steel, and are so constructed as to hold about anything that can be put into them in the line of taps, reamers, drills, etc. They take in round, square, or oval. The screws are hardened cast steel, the body parts case hardened.

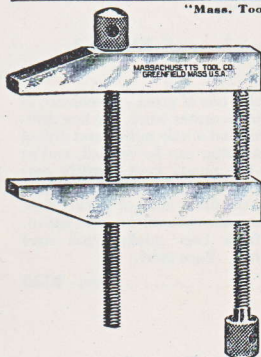
			Price
No. 66.	Length 3 inches, takes up to $\frac{7}{32}$ inch	(WAGE)	\$0.50
No. 157.	Length 5 inches, takes up to $\frac{5}{16}$ inch	(WADE)	1.00

Drill and Reamer Holder



This little tool is exactly what one is "always looking for" to hold small stock or tools in the lathe or drill press. It is made in three sizes. Screw hardened cast steel. Body case hardened.

			Price
No. 67.	Diameter of handle $\frac{1}{4}$ inch; length $3\frac{1}{4}$ inches, holds $\frac{5}{32}$ inch	(HALE)	\$0.25
No. 68.	Diameter of handle $\frac{3}{8}$ inch; length $4\frac{1}{4}$ inches, holds $\frac{7}{32}$ inch	(HALF)	.35
No. 69.	Diameter of handle $\frac{1}{2}$ inch; length $5\frac{1}{4}$ inches, holds $\frac{5}{16}$ inch	(HALT)	.50



Precision Parallel Steel Clamp

These Clamps are made for accurate work. They are constructed of steel, case hardened, and nicely finished. Larger sizes have pivot bearings eliminating all frictional strain in use, also screw heads of equal diameter, drilled for tightening bars. Furnished in six sizes.

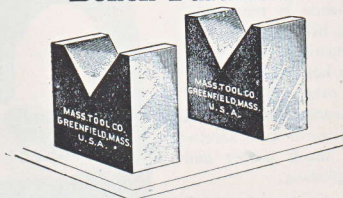
		Price, Each
No. 91.	Length 1 inch, opening $\frac{5}{8}$ inch..... (CALL)	\$0.45
No. 92.	Length $1\frac{1}{2}$ inches, opening 1 inch..... (CANE)	.50
No. 93.	Length 2 inches, opening $1\frac{1}{4}$ inches..... (CAPITAL)	.65
No. 94.	Length $2\frac{1}{2}$ inches, opening $1\frac{3}{4}$ inches..... (CAPRICE)	.75
No. 95.	Length 3 inches, opening 2 inches..... (CAPSULE)	.85
No. 96.	Length 4 inches, opening $2\frac{1}{2}$ inches..... (CAPTION)	1.00

Packed one pair (or 2 clamps like cut) in a box.

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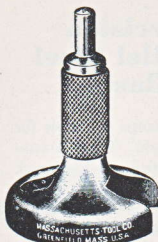
Precision V-Blocks or Bench Parallels



These Blocks are most useful for machinists and tool makers and are almost a necessity in doing a large class of fine work. They are accurately made of steel and case hardened. Ground in the angle and on base and one end.

		Price, per Pair
No. 100.	Height $1\frac{1}{4}$ inches, width $1\frac{1}{2}$ inches..... (BEAT)	\$1.25
No. 101.	Height 2 inches, width $2\frac{1}{2}$ inches..... (BELLE)	2.50

Packed one pair in a box.



Toolmakers' Punch

No. 65

This little tool is one of great convenience in laying out precision center work, for fine drilling. It has a slot and a hole milled and drilled so that an exact center can be verified, and at the same time the punch kept directly perpendicular to the space to be drilled; an absolute necessity in the finest class of work. Tool is well finished and one that will be most useful. Punch made from best quality cast steel properly tempered. Base steel.

Price, each..... (PET) \$0.50

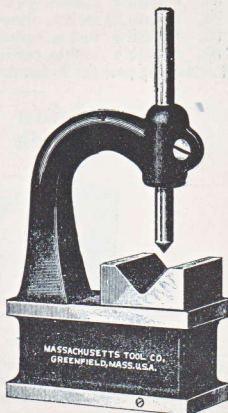
Double Centering Punch

No. 97

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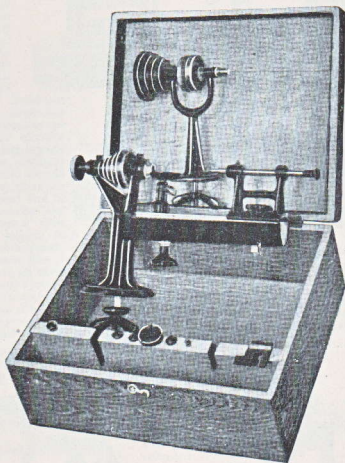
This tool was designed to facilitate the marking of holes in opposite sides of round or square work for precision drilling from two sides. The V-slide is removable. Bottom punch, held up by spring into hole first made by top punch, makes the two holes come exactly opposite each other. The use of this device insures accuracy and rapidity on a class of work heretofore requiring much bother and delay in accomplishing.



Price, each..... (PLURAL) \$2.50

Shipping weight, 1½ pounds.

Precision Model Lathe Assortment No. 1



PAGE

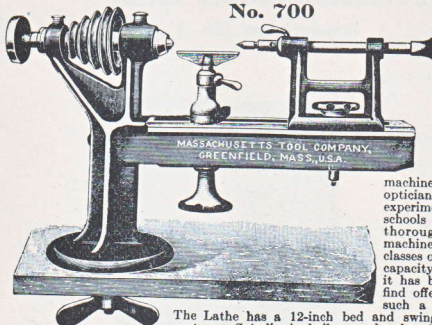
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Consisting of 5 x 12 inch Precision Model Lathe, 1 Countershaft, 1 Table Rest, 1 Large Step Chuck, 4 Round Wire Chucks to hold $\frac{1}{16}$ -inch, $\frac{1}{8}$ -inch, $\frac{3}{16}$ -inch, $\frac{1}{4}$ -inch, 1 Saw Arbor (without Saw), all complete in a polished wood case as shown in cut.

Price, complete, as shown. (LEGAL) \$20.00

Shipping weight, about 25 pounds.

Precision Model Lathe No. 700



A large and varied demand for a lathe of this character exists among all classes of skilled mechanics, and in every workshop where small, delicate work has to be handled on a

machine. Clockmakers, opticians, electricians, experimenters, and trade schools will find it a thoroughly practical machine capable of all classes of work up to its capacity, and one which it has been difficult to find offered for sale at such a moderate price.

The Lathe has a 12-inch bed and swings 5 inches on centers. Spindle is hollow and takes $\frac{1}{2}$ -inch diameter through. It is thoroughly well made, and in perfect alignment, and constructed with a special view to the fact that its ability to perform any work within its province should be paramount in every detail. At the same time all unnecessary expense has been eliminated, in order to make the price a reasonable one. The parts not machined and polished bright are finished in japan, which finish will be found both attractive and serviceable. This machine can be furnished as shown in the cut, or complete with any or all of the accessories and attachments listed on the pages that follow.

Price, each (LION) \$15.00

Figure Z

Countershafts

Figure P Z

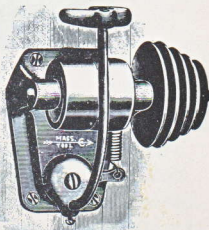
Foot Power

This is the same Counter furnished with the No. 1 Lathe but is so convenient a tool for many other places that we list it here.

Cone Pulley, 3 in. large diam.
Cone Pulley, 2 in. small diam.
Receiving Pulley, $2\frac{1}{4} \times 1$ inch.
Uses..... $\frac{1}{4}$ in. Round Belt.
Uses..... 1 in. Flat Belt.



Price, each (CAVE) \$2.50



Wall Countershaft

Especially adapted for use in connection with steam or electric power. Solid and well made.

Cone Pulley, 3 in. large diameter.
Cone Pulley, 2 in. small diameter.
Tight and Loose Pulley, 2×1 inch.

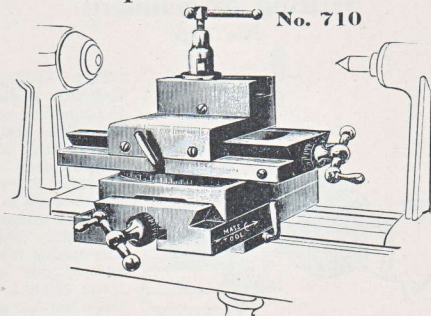
Price, each (CHAIR) \$3.50

Goodell-Pratt Company

"Mass. Tool Co." Brand

Compound Slide Rest

No. 710



Our Compound Slide Rest has a double micrometer adjustment, exceptionally wide bearing surfaces, is solid and perfectly adapted for all possible requirements of one of its size. It clamps directly to the lathe bed, being held firmly. It may be set to turn at any angle, the whole circle being graduated in degrees. Its tool post takes a lathe tool $\frac{3}{16} \times \frac{1}{8}$ inch. It has micrometer lead screw. Gibs are provided to take up all wear of the slides. Bearing surfaces are scraped to a perfect fit. It has $2\frac{1}{4}$ -inch movement on bottom slides and ways; $2\frac{3}{4}$ -inch cross feed; $2\frac{3}{4}$ -inch longitudinal feed.

Price, each (REST) \$25.00

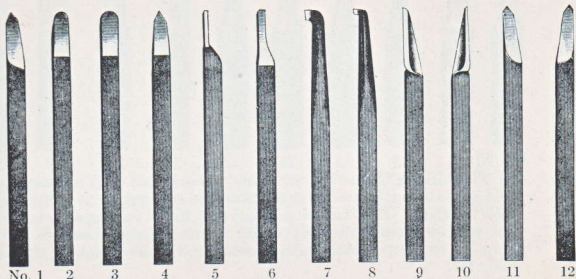
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Lathe Tools

For use with No. 710 Slide Rest

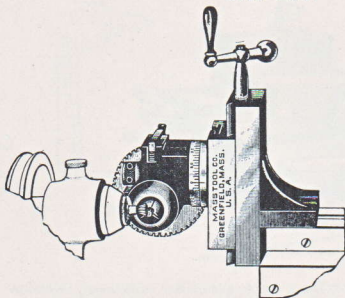
Size $\frac{1}{8} \times \frac{1}{16}$ inch



No. 1 2 3 4 5 6 7 8 9 10 11 12

Price, each \$0.30

Milling Attachment No. 715



This Milling Attachment is designed to be used on our No. 710 Slide Rest, and will perform a wide range of work. It has recently been improved so as to make it more comprehensive and desirable. The spindle will take any of our regular lathe chucks. The screw has fine adjustment reading to .001.

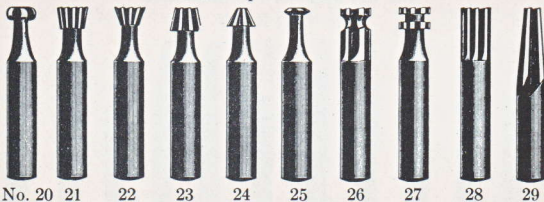
The fixture can be instantly and firmly clamped to slide rest (there being no change necessary in the rest to accomplish it). Spindle swivels to 90°. Index plates are interchangeable.

Price, each..... (MILL) \$20.00

Milling Cutters

For use with No. 715 Attachment

Shanks $\frac{1}{4}$ inch diameter



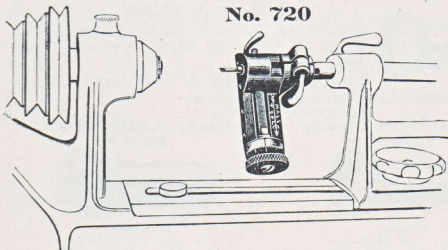
No. 20 21 22 23 24 25 26 27 28 29

The Milling Cutters shown above (nearly full size) are made of best grade of cutter steel properly tempered and capable of performing their full duty. They can be used not only in our milling attachment, but will be found extremely useful in doing many kinds of work around the shop which have heretofore required making special tools for.

Price, each..... \$1.00

Boring Attachment

No. 720



The Boring Attachment is a very comprehensive and complete fixture for boring and truing small holes. It can be clamped instantly to the Tail Stock and is then ready for work. It matters not at what angle the slide of the fixture is set it is always in position for the boring tool. Its sets of Chucks take Shanks from $\frac{3}{16}$ to $\frac{1}{2}$ inch. The $\frac{3}{16}$ -inch tool fits the Spindle; the $\frac{1}{8}$ and $\frac{3}{32}$ inch require a $\frac{1}{8}$ -inch Chuck; the $\frac{1}{16}$ and $\frac{3}{32}$ inch require a $\frac{1}{16}$ -inch Chuck. The tool can be set to bore the smallest holes with almost perfect trueness. The disc is graduated with a Vernier to .000125 inch, which makes it of the greatest convenience in bringing small diameter holes to an absolute size. The tool has a $\frac{3}{4}$ -inch movement off center by the screw. It has Gibs to take up all the wear on the slides.

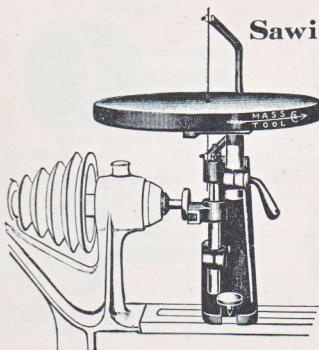
Price, each.....	(BOR)	\$12.50
Price, each, chuck.....		.75
Price, each, boring tools.....		.75

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Sawing Attachment

No. 725



This is a useful attachment to our Lathe, and one that is capable of adding quite a little to its owner's capacity for getting out model work as well as the light and intricate parts of small patterns. It is substantial, well made, and easily attached to the Lathe.

Table diameter, 4 inches.
Length of stroke, $\frac{1}{2}$ inch.
Length of saw, 4 inches.

We do not furnish saws for this Attachment.

Price, each.....	(SEEK)	\$5.00
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Goodell-Pratt Company

"Mass. Tool Co." Brand

Round Wire Chucks

Figure A



Regular Sizes

$\frac{1}{16}$, $\frac{3}{32}$, $\frac{1}{8}$, $\frac{5}{32}$, $\frac{3}{16}$, $\frac{7}{32}$, $\frac{1}{4}$ inches. .5, 1, 1.5, 2, 2.5, 3.5, 4.5, 5, 6 mm. Metric. 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60 Twist Drill Sizes. Price, each..... \$0.50
Other standard sizes $\frac{1}{2}$ " to $\frac{1}{4}$ ", each... 1.00

Special dimensions, prices on application.

Square Wire Chuck

Figure O



5 Sizes

$\frac{1}{16}$ ", $\frac{3}{32}$ ", $\frac{1}{8}$ ", $\frac{5}{32}$ ", $\frac{3}{16}$ "

Price, each..... \$1.00

Right Angle Chuck

Figure N



5 Sizes

$\frac{1}{16}$ ", $\frac{3}{32}$ ", $\frac{1}{8}$ ", $\frac{5}{32}$ ", $\frac{3}{16}$ "

Price, each..... \$0.75

Three Jaw Chuck

Figure C



0- $\frac{5}{32}$ " Capacity

Price, each..... \$1.50

Expansion Chuck

Figure B



5 Sizes

$\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{7}{16}$ ", $\frac{1}{2}$ "

Price, each..... \$1.00

Shoulder Chuck

Figure H



Regular $\frac{1}{2}$ " Size

Price, each..... \$0.75

Shoulder Chuck

Figure P



Special Sizes to Order

Price, each..... \$1.00 up

Step Chucks

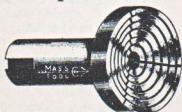


Fig. V. $\frac{1}{4}$ " diameter, each \$1.50

Fig. Q. $\frac{1}{16}$ " diameter, each .75

Cement Chucks



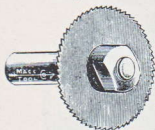
Fig. I. $\frac{1}{2}$ " diameter, each \$0.15

Fig. J. $\frac{3}{4}$ " diameter, each .25

Goodell-Pratt Company

"Mass. Tool Co." Brand

Figure D



Saw Arbor
Price, each. \$0.75

Saws

Diameter, $\frac{7}{8}$ inch; thickness, .021, .032, or .050.

Price, each. \$0.20

V-Center for Tail Stock

Figure K



Price, each. \$0.50

Live Spindle Center Holder

Figure E



Price, each. \$1.00

Tail Stock Spindle Center

Figure W



Price, each. \$0.50

Block Holder Chuck

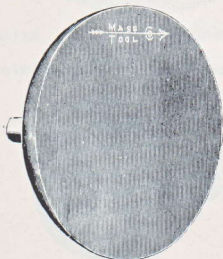
Figure X



Price, each. \$1.00

Lead Lap

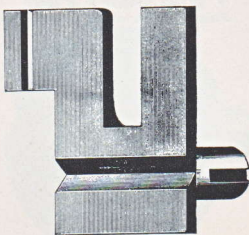
Figure M



Price, each. \$1.50

Table Rest

Figure G



Price, each. \$1.50

PAGE

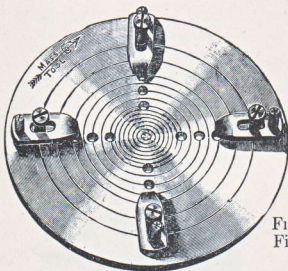
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Goodell-Pratt Company

"Mass. Tool Co." Brand

Clamp Face Plate

Figure U 4 inches diameter



Price, each..... \$5.00

Screw Face Plate

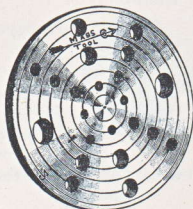
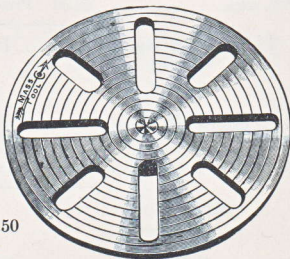


Figure L 2" Price, each \$3.00
Figure S 4" Price, each 4.00

Slotted Face Plate

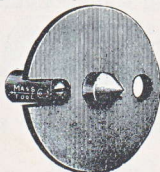
Figure T 4 inches diameter



Price, each..... \$4.00

Center Face Plate

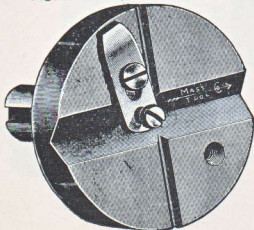
Figure F 1 1/4 inches diameter



Price, each..... \$1.50

V Slot Clamp Plate

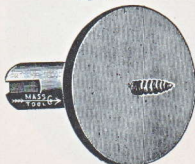
Figure R 1 1/4 inches diameter



Price, each..... \$1.50

Screw Center Face Plate

Figure Y



Price, each..... \$1.00

Notice

The business of THE DUCHARMES AND COMPANY long located at Shelburne Falls, Massachusetts, and known as manufacturers of high grade hammer forged Screw-Drivers, Awls, Punches, and other forged tools has been purchased by us and incorporated under the name of

Pratt Drop Forge and Tool Company

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and hereafter their entire product will be handled exclusively by us.

A new factory for their exclusive use has been erected, the best of machinery installed and the highest standards of quality will be maintained.

The Ducharmes Tools now known to the trade will be found illustrated and described on the pages as follows: 338 to 344.

We shall largely increase this line and shall endeavor to make it comprehensive and complete.

Electricians' Screw-Driver

No. 330

(Ducharmes Improved Electrician No. 1)



This Screw-Driver was designed especially for the use of electricians, or those working around electricity where an insulated tool is necessary.

HANDLE.—Birch, mahogany finished, six-sided to insure a good grip and prevent Driver from rolling.

FERRULE AND INSULATION.—Heavy steel, hard rubber $1\frac{1}{4}$ inches long.

BLADE.—Made from the very best tool steel, hammer forged, hardened and tempered.

	Per Dozen
4 inch.....	(ABATE) \$5.00
6 inch.....	(ABIDE) 7.00
8 inch.....	(ACQUIT) 9.00

Packed one half dozen in a box.

Jewelers' Screw-Driver

No. 331

(Ducharmes Dandy Jewelers)



A fine, slim, light, serviceable Driver, suitable for the most delicate work.

HANDLE.—Birch, mahogany finished.

FERRULE.—Heavy, well nickeled.

BLADE.—Made from the best drill rod steel, hammer forged, carefully hardened and tempered.

	Per Dozen
2 inch.....	(ACRID) \$2.00
3 inch.....	(ACROSS) 2.50
4 inch.....	(ACTION) 3.00
5 inch.....	(ADAPT) 3.50
6 inch.....	(ADDER) 4.00
8 inch.....	(ADHERE) 5.50

Packed one half dozen in a box.

Screw-Driver

No. 350

(Ducharmes O. K. No. 9)



This is a very nicely designed, well balanced, strong and serviceable Screw-Driver.

HANDLE.—Birch, mahogany finished, and fluted to prevent hand from slipping.

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FERRULE.—Heavy steel.

BLADE.—Made from good crucible steel, hammer forged, hardened and tempered.

	Per Dozen
2 inch (ADIEU)	\$1.20
3 inch (ADJQIN)	1.30
4 inch (ADJURE)	1.50
5 inch (ADMIRE)	1.60
6 inch (ADMIT)	1.70
8 inch (ADOBE)	2.00
10 inch (AFFECT)	2.50
12 inch (AFFIRM)	3.00

Packed one half dozen in a box.

Screw-Driver

No. 332

(Ducharmes Hand D No. 5)



Under this number we are listing as good a line of Plain Screw-Drivers as can be made. Each Blade is tested to break a screw head and the Blade is pinned through the handle so that it cannot possibly turn.

PAGE

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HANDLE.—Rock maple, very nicely finished in its natural color.

FERRULE.—Heavy, nicely nickeled.

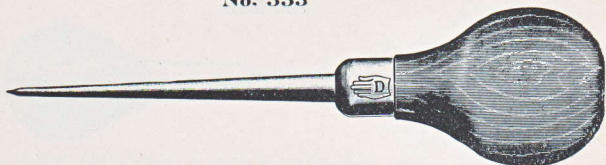
BLADE.—Made from the very best steel that we can buy for the purpose, hammer forged, very carefully hardened and tempered.

	Per Dozen.
1½ inch..... (AFFIX)	\$2.00
2 inch..... (AFFORD)	2.00
3 inch..... (AGENT)	2.50
4 inch..... (AGILE)	3.00
5 inch..... (AGIST)	3.50
6 inch..... (AGOG)	4.00
8 inch..... (AGRIE)	5.50
10 inch..... (AISLE)	6.50
12 inch..... (ALACK)	9.00

Packed one half dozen in a box.

Ship Carpenters' Awl

No. 335



This is a short stocky Awl, 5 inches long over all, especially useful for bridge builders, ship carpenters, or in fact any one who desires a short, strong, serviceable Awl.

HANDLE.—Birch, highly polished, $1\frac{1}{4}$ inches in diameter

FERRULE.—Heavy, nickel plated.

BLADE.—Made from a good grade of tool steel, hammer forged, hardened and tempered, $2\frac{3}{4}$ inches long.

PAGE

Price, per dozen..... (ALARM) \$1.50 **341**

Packed one dozen in a box.

Belt Awl

No. 336



This is a thin, tapered Belt Awl, 8 inches long over all, nicely balanced, with a strong blade

HANDLE.—Birch, mahogany finished, corrugated to prevent hand from slipping.

FERRULE.—Heavy steel.

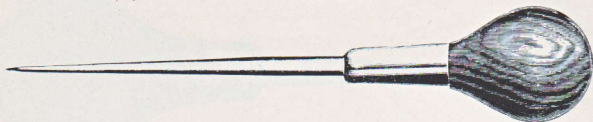
BLADE.— $4\frac{1}{4}$ inches long, hammer forged, hardened and tempered.

Price, per dozen..... (ALARY) \$1.75

Packed one half dozen in a box.

Ice Pick

No. 339



This is a strong, well made, and nicely finished Ice Pick, 8 inches long over all.

HANDLE.—Birch, mahogany finished, round, $1\frac{7}{8}$ inches in diameter.

FERRULE.—Heavy steel.

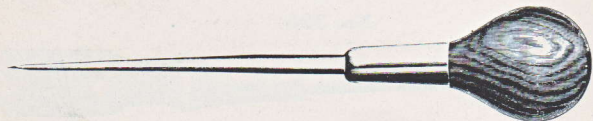
BLADE.—5 inches long, made of tool steel, hammer forged, hardened and tempered.

Price, per dozen (ALDER) \$2.00

Packed one half dozen in a box.

Scratch Awl

No. 344



This is an exceptionally well designed, made, and balanced Awl, 7 inches long over all.

HANDLE.—Birch, mahogany finished, round, $1\frac{9}{16}$ inches in diameter.

FERRULE.—Heavy steel.

BLADE.—4 inches long, made of tool steel, hammer forged, hardened and tempered.

Price, per dozen (ABASH) \$1.75

Packed one half dozen in a box.

Screw-Driver Bits



These Bits are made from the very best steel that we can buy for this purpose, hammer forged, and very carefully hardened and tempered.

	Per Dozen
No. 351.....(GARBLE)	\$2.00
No. 352.....(GARNER)	2.20
No. 353.....(GARTLE)	2.40
Assorted.....(GLADE)	2.20

Packed one dozen in a box.

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Rimmer

No. 346



This is a very fine, well made, little tool; the Handle, Bit and Ferrule are manufactured from the very best of stock. Length over all, 6½ inches.

HANDLE.—Rock maple, nicely finished.

FERRULE.—Heavy, nicely nicked.

BLADE.—Tool steel, hammer forged, hardened and tempered.

Price, per dozen.....(GLIDE) \$2.00

Packed one half dozen in a box.

Nail Set

No. 347



These Nail Sets are made from the very finest of tool steel hammer forged, very carefully hardened and tempered. There are none better made.

$\frac{1}{16}$, $\frac{1}{8}$, $\frac{5}{32}$, or assorted.....(KECKLE) Per Dozen \$1.50

Packed one dozen in a box.

Center Punch

No. 348



This Punch is made from the same steel as the Nail Sets, hammer forged, hardened and tempered.

Price, per dozen.....(KEEN) \$1.40

Packed one dozen in a box.

Tinners' Punch

No. 349



Here is a Punch that is made from the very best of steel, hammer forged, very carefully hardened and tempered; a Punch that will stand every test.

$\frac{7}{64}$, $\frac{1}{8}$, $\frac{5}{32}$, or assorted.....(KERN) Per Dozen \$1.25

Packed one dozen in a box.



POCKET CATALOG
No. 11